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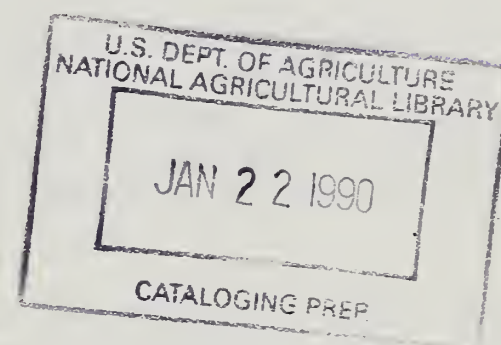
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The National WIC Evaluation

An Evaluation of the Special Supplemental
Food Program for Women, Infants,
and Children

Volume IV: Appendixes

Appendixes to
Chapters III, V, VI, and VII



Submitted to
Office of Analysis and Evaluation
Food and Nutrition Service
Department of Agriculture

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Prepared by
Research Triangle Institute
New York State Research Foundation for Mental Hygiene

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PREFACE

The evaluation of the Special Supplemental Food Program for Women, Infants and Children (WIC), designated here as the National WIC Evaluation, is a project undertaken by the Research Triangle Institute (RTI) under contract with the Office of Analysis and Evaluation, Food and Nutrition Service (FNS), United States Department of Agriculture (Contract No. 53-3198-9-87). The National WIC Evaluation is documented in this summary report and more comprehensively in four technical volumes: Volumes II and III - Technical Report and Volume IV and V - Appendixes. The summary report is written for the reader who wishes a brief nontechnical overview of the WIC program, an explanation of the logic of the National WIC Evaluation, and a discussion of its important results and conclusions. The technical report presents complete discussions of methodology, database construction, analysis techniques, results, and conclusions. The appendixes present copies of all data collection instruments used in the evaluation and supplementary tables referred to in the technical report.

This report covers the four component studies, namely the Historical Study of Pregnancy Outcomes, the Longitudinal Study of Pregnant Women, the Study of Infants and Children, and the Food Expenditures Study, upon which the National WIC Evaluation is based. These studies were designed primarily by the Principal Investigator, Dr. David Rush, with support from RTI staff and consultants, in the fall and winter of 1981-82. Dr. Rush's services, together with a small supporting staff, were made possible through a subcontract with the New York State Research Foundation for Mental Hygiene (NYRFMH).

Actual implementation of the studies began in the summer of 1982, with the major field data collection effort occurring during 1983. While RTI undertook major responsibility for organizing and managing the field effort, processing the data and preparing the basic data files, the entire effort was directed by Dr. Rush and carried out with support from his NYRFMH staff. The major analysis and reporting tasks were also carried out by Dr. Rush and his staff for three of the four component studies, with extensive support from RTI staff. The fourth study, concerned with food expenditures, was analyzed and the report prepared by RTI staff.

The success of the Historical Study was due in large part to the efforts of the State WIC program directors who, with their staff, provided annual counts of WIC women for individual clinics during the period 1974 to 1981. Considerable cooperation was also received from State directors of vital records who provided complete files of births and linked infant deaths for the period 1972 to 1980.

The Longitudinal Study, the Study of Children, and the Food Expenditures Study all acquired data through a national probability sample of pregnant women enrolled in the WIC program and a sample of low-income pregnant women not enrolled in WIC. The success of these samples and the success of the total data collection effort depended in no small part on the excellent cooperation of the directors and staff of the 174 WIC clinics and the directors and staff of the 55 non-WIC clinics that participated in the field phase of the study.

Both the study design and early drafts of this report were reviewed and critiqued by the FNS Advisory Panel to the National WIC Evaluation. The members of this Panel are listed on the inside cover.

The National WIC Evaluation received considerable support and valuable review and advice from the FNS Office of Analysis and Evaluation Project Officers Mr. David Shanklin and Dr. Burleigh Seaver. Particularly helpful were the review and comments of earlier drafts of this report by Dr. Seaver and by Ms. Nancy Chetry of the FNS Special Supplemental Food Division.

Finally, the consistently valuable, timely and able administration of the project by Ms. Sally Johnson is recognized.

D. G. Horvitz
Project Director

CONTENTS

<u>Appendix</u>		<u>Page</u>
Chapter III Appendixes		
III-A	WIC Presence Analysis	III-1
III-B	Number of Births Processed from Vital Statistics Data, by State and Year	III-8
III-C	National WIC Evaluation Program Data Sheet	III-9
III-D	State-by-State Analysis Among States with One or More Years of Missing Data	III-12
III-E	Estimates of Effects Among WIC Beneficiaries If All Were Contributed by Them	III-19
III-F	Procedure for Measuring Autocorrelation	III-20
III-G	Effect of Change in Duration of Gestation on Prevalence of Women Participants in WIC and Penetration Rate	III-22
III-H	WIC Penetration and Fetal Mortality	III-23
Chapter V Appendixes		
V-A	Introductory Tables on WIC Foods	V-1
V-B	Dietary Intake Tables	V-8
V-C	Maternal Anthropometric Tables	V-139
V-D	Maternal Health Care and Behavior Tables	V-178
V-E	Perinatal Outcomes Tables	V-185
Chapter VI Appendixes		
VI-A	Introductory Tables on WIC Foods	VI-1
VI-B	Dietary Intake Tables	VI-5
VI-C	Child Anthropometric Measures Tables	VI-115
VI-D	Child Health Measures	VI-180
VI-E	Psychological Tables	VI-181

CONTENTS (continued)

<u>Appendix</u>	<u>Page</u>
Chapter VII Appendixes	
VII-A Data Description	VII-1
VII-B Recall Data and Diary Data	VII-7
VII-C Analytical Framework	VII-31

CHAPTER III APPENDIXES

APPENDIX III-A: WIC PRESENCE ANALYSIS

Table III-A-1

Effect of WIC + CSFP Presence^a on Percent Preterm^b
1972-1980, 1102 Counties

Source of Variance	d.f.	Mean Square	F	p	Greenhouse Geisser p	Regression Coefficient (b)
Between county	1	6554.53	9.96	0.0		0.54%
County variance adjusted for WIC + CSFP	1100	657.85				
Time	8	2112.93	27.68	0.0	0.0	
WIC + CSFP presence (controlled for time and mean county level)	1	20.12	0.26	0.61		-0.03%
Residual	8807	76.35				

Notes: Greenhouse and Geisser factor for (degrees of freedom) adjustment = 0.90.
Sphericity test tail probability = 0.0.

^aPresence coded 1 if WIC or CSFP present in county, coded 0 otherwise.

^bPreterm defined as gestational age <37 weeks.

Table III-A-2

Effect of WIC + CSFP Presence^a on Mean Gestational Age^b
1972-1980, 1102 Counties

Source of Variance	d.f.	Mean Square	F	p	Greenhouse Geisser p	Regression Coefficient (b)
Between county	1	223.55	14.96	0.0		-0.10w
County variance adjusted for WIC + CSFP	1100	14.95				
Time	8	102.44	41.20	0.0	0.0	
WIC + CSFP presence (controlled for time and mean county level)	1	3.89	1.56	0.21		0.01w
Residual	8807	2.49				

Notes: Greenhouse and Geisser factor for (degrees of freedom)
adjustment = 0.94.

Sphericity test tail probability = 0.0.

^aPresence coded 1 if WIC or CSFP present in county, coded 0 otherwise.

^bIn weeks.

Table III-A-3

Effect of WIC + CSFP Presence^a on Percent Low Birthweight^b
1972-1980, 1321 Counties

Source of Variance	d.f.	Mean Square	F	p	Greenhouse Geisser p	Regression Coefficient (b)
Between county	1	27698.03	43.20	0.0		1.04%
County variance adjusted for WIC + CSFP	1319	614.18				
Time	8	1561.36	25.0	0.0	0.0	
WIC + CSFP presence (controlled for time and mean county level)	1	80.11	1.28	0.26		-0.05%
Residual	10559	62.45				

Notes: Greenhouse and Geisser factor for (degrees of freedom)
adjustment = 0.95.

Sphericity test tail probability = 0.0.

^aPresence coded 1 if WIC or CSFP present in county, coded 0 otherwise.

^bLow birthweight defined as <2500 g.

Table III-A-4

Effect of WIC + CSFP Presence^a on Mean Birthweight^b
1972-1980, 1321 Counties

Source of Variance	d.f.	Mean Square	F	p	Greenhouse Geisser p	Regression Coefficient (b)
Between county	1	60449290.81	47.67	0.0		-48.78g
County variance adjusted for WIC + CSFP	1319	1268163.02				
Time	8	5377919.70	150.82	0.0	0.0	
WIC + CSFP presence (controlled for time and mean county level)	1	33840.12	0.95	0.33		1.12g
Residual	10559	35659.01				

Notes: Greenhouse and Geisser factor for (degrees of freedom)
adjustment = 0.91.

Sphericity test tail probability = 0.0.

^aPresence coded 1 if WIC or CSFP present in county, coded 0 otherwise.

^bIn grams.

Table III-A-5

Effect of WIC + CSFP Presence^a on Early Neonatal Mortality Rate^b
1972-1980, 717 Counties

Source of Variance	d.f.	Mean Square	F	p	Greenhouse Geisser p	Regression Coefficient (b)
Between county	1	283.65	0.16	0.69		0.14
County variance adjusted for WIC + CSFP	715	1777.72				
Time	8	33936.43	55.48	0.0	0.0	
WIC + CSFP presence (controlled for time and mean county level)	1	521.27	0.85	0.36		-0.18
Residual	5727	611.65				

Notes: Greenhouse and Geisser factor for (degrees of freedom)
adjustment = 0.96.
Sphericity test tail probability = 0.0.

^aPresence coded 1 if WIC or CSFP present in county, coded 0 otherwise.

^bEarly neonatal death rate = $\frac{\text{Number of deaths <7 days of age} \times 1000}{\text{Number of live births}}$

Table III-A-6

Effect of WIC + CSFP Presence^a on Neonatal Mortality Rate^b
1972-1980, 717 Counties

Source of Variance	d.f.	Mean Square	F	p	Greenhouse Geisser p	Regression Coefficient (b)
Between county	1	1094.15	0.52	0.47		0.28
County variance adjusted for WIC + CSFP	715	2117.80				
Time	8	36238.00	50.77	0.0	0.0	
WIC + CSFP presence (controlled for time and mean county level)	1	507.60	0.71	0.40		-0.18
Residual	5727	713.71				

Notes: Greenhouse and Geisser factor for (degrees of freedom)
adjustment = 0.96.

Sphericity test tail probability = 0.0.

^aPresence coded 1 if WIC or CSFP present in county, coded 0 otherwise.

^bNeonatal death = $\frac{\text{Number of deaths <28 days of age} \times 1000}{\text{Number of live births}}$

Table III-A-7

Effect of WIC + CSFP Presence^a on Postneonatal Mortality Rate^b
1972-1980, 717 Counties

Source of Variance	d.f.	Mean Square	F	p	Greenhouse Geisser p	Regression Coefficient (b)
Between county	1	60.55	0.09	0.76		0.07
County variance adjusted for WIC + CSFP	715	645.04				
Time	8	1045.20	4.17	0.0	0.0	
WIC + CSFP presence (controlled for time and mean county level)	1	311.52	1.24	0.26		0.14
Residual	5727	250.36				

Notes: Greenhouse and Geisser factor for (degrees of freedom)
adjustment = 0.97.
Sphericity test tail probability = 0.0.

^a Presence coded 1 if WIC or CSFP present in county, coded 0 otherwise.

^b Postneonatal death rate = $\frac{\text{Number of deaths } > 28 \text{ days through 1 year} \times 1000}{\text{Number of live births}}$

Appendix III-B

Number of Births Processed From Vital Statistics Data, by State and Year

State	1972	1973	1974	1975	1976	1977	1978	1979	1980
Arizona	18,294*	18,509*	19,509*	19,347*	19,588*	20,502*	21,139*	22,954*	24,578*
Colorado	19,076*	38,192	38,724	39,845	40,670	42,759	43,779	46,914	49,440
District of Columbia	5,790*	5,228	4,838*	4,694*	4,616*	4,769*	4,461*	4,541*	4,470*
Georgia	42,768*	41,728*	40,769*	39,203*	38,815*	41,478*	41,324*	43,169*	45,304*
Illinois	86,973*	82,542*	165,068	165,315	166,157	172,864	170,123	179,530	185,060
Iowa	19,761*	18,804*	38,876	39,972	40,189	43,318	42,967	45,092	46,056
Kansas	15,101*	14,710*	30,061	31,110	32,410	33,818	33,662	36,121	37,970
Kentucky	26,764*	25,872*	25,655*	26,337*	53,208	55,979	54,626	56,304	56,611
Louisiana	33,774*	32,797*	32,486*	67,033	68,753	73,978	73,868	78,240	81,198
Maine	15,688	15,158	14,539	14,682	14,430	15,497	15,209	15,712	15,785
Michigan	72,643*	139,707	135,787	132,166	129,686	136,542	137,277	142,646	143,510
Mississippi	22,012*	21,312*	21,022*	20,831*	20,408*	21,618*	21,042*	43,657	45,445
Missouri	70,721	66,921	67,793	66,677	67,010	71,187	70,885	74,261	76,540
New York	289,230*	338,089	338,039	333,943	334,025	338,939	329,091	329,732	333,741
North Carolina	43,820*	41,163*	41,437*	79,621	79,295	83,382	81,309	82,723	83,406
Pennsylvania	80,300*	75,410*	74,431*	73,273*	72,877*	75,488*	74,809*	155,055	156,092
Rhode Island	12,708	11,782	10,870	10,213	10,322	11,102	10,977	11,329	11,647
South Dakota	5,099*	5,025*	5,223*	5,279*	5,467*	5,640*	5,755*	6,114*	6,225*
Utah	13,355*	13,866*	14,865*	15,720*	17,515*	18,786*	38,548	40,806	41,510
Washington	23,539*	23,158*	24,367*	24,712*	25,805*	27,898*	57,184	62,591	66,138

*Indicates that data were from a 50 percent sample of births. New York City 1972 data was based on 100 percent of births while the rest of the 1972 New York State data was based on a 50 percent sample.

APPENDIX III-C: NATIONAL WIC EVALUATION PROGRAM DATA SHEET

INSTRUCTIONS

Please read these instructions carefully before you complete the WIC Program Data Sheet on the following pages.

- Item 1 Please write out the full name of the state for which you are reporting.
- Item 2 Data are needed on all WIC Programs that have ever operated in your state, regardless of whether or not the programs are currently operating. Please work from the past to the present, identifying each WIC Program as it came into operation, regardless of how the program may now be constituted.
- For example, the Triad WIC Program began operations in 1974, serving counties A, B, and C. In 1979, a separate program was set up in county C. One Data Sheet should be prepared for the Triad WIC Program, and it should include information for counties A, B, and C for 1974 through the period in 1979 when the county C program began. This Data Sheet should then continue with the requested data for counties A and B through 1981. A second Data Sheet should be prepared for the county C program; it should include information about the county C program from the beginning of the program in 1979 through 1981.
- Item 3 Enter the year in which the program became operational.
- Item 4 Check one box to indicate if the program is still in operation. If "no" is checked, enter the year in which the program closed.
- Item 5 On the numbered lines, enter the names of all counties or parts of counties that have ever been served by the WIC Program identified in Item 2, regardless of whether or not the county (or partial county) is still being served by this program. For each county listed, please place a check mark in the year column(s) to designate the calendar years that the county was served by the program. Check all full and partial years that the county was served.
- Item 6 This item requests the number of participants served by the program, by type of participant, for all years the program has operated. Further, if these numbers are available for the reporting months specified on Form FNS-191, the numbers should be entered in the corresponding month columns.
- Part a. requests the number of women participants served. The total number of women served should be entered on this line, for each month and year, if available. If data are available for the three categories of women—pregnant, postpartum, and breastfeeding—please provide these numbers as well as the total.
- Parts b. and c. request the total numbers of infants and children served during each month and year.
- If the numbers of participants served are not available for one or more periods the program was in operation, please provide a brief explanation of the problem in Item 8 on the last page of the Data Sheet.
- If data on number of participants are available only on an annual basis, please enter the total number of participants served, by type, in the December column for each year.
- Item 7 Please identify the sources from which the information on numbers of participants was secured. For example, "1978 Annual Social Services Report", Form FNS-191, etc.
- Item 8 Please note any problems with data entered in previous items in the Data Sheet. Any comments that will help us understand the information provided will also be appreciated.
- Item 9 Please enter your name, title, and telephone number in case we need to contact you to clarify any part of the information provided.

PROGRAM DATA SHEET National Evaluation of the WIC Program

RTI USE ONLY
| | | | | | | | | |

1. State _____

2. Name of WIC Program _____

3. Year Program Began _____

4. Is this program still in operation?
(Check one.)

☐ Yes (Go to Item 5.)

☐ No - In what year did this program close? _____ (Continue with Item 5.)

5. Please enter the name of each county (or part of a county) that has ever been served by the WIC program identified in Item 2. For each county listed, check the year column to indicate each calendar year that the county was served by the program.
(For example, if the county listed on line (1) was served from June 1974 through January 1978, you should place a check mark in the columns for 1974, 1975, 1976, 1977, and 1978 on the line for county (1).)

County Name	RTI Use	1973	1974	1975	1976	1977	1978	1979	1980	1981	County Name	RTI Use	1973	1974	1975	1976	1977	1978	1979	1980	1981
(1)											(13)										
(2)											(14)										
(3)											(15)										
(4)											(16)										
(5)											(17)										
(6)											(18)										
(7)											(19)										
(8)											(20)										
(9)											(21)										
(10)											(22)										
(11)											(23)										
(12)											(24)										

6. Information on the number of participants served, by type, is needed for the WIC program identified in Item 2. The table below should be completed to show, for each type of participant, the number that were served in each specified month and year during all years that the program has operated. If the requested data are not available for any period,

	1973			1974			1975			1976			1977			1978			1979			1980			1981		
	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep
a. Total Women																											
(1) Pregnant																											
(2) Postpartum																											
(3) Breastfeeding																											
b. Total Infants																											
c. Total Children																											
d. Total Participants																											

7. From what source(s) were the data entered in Item 6 secured?

APPENDIX III-D: STATE-BY-STATE ANALYSIS AMONG STATES WITH ONE OR MORE YEARS OF MISSING DATA

The relationship of WIC penetration to five indices of the effect of the WIC program among States for which data were missing for some years are reported here. Aggregated results for all the States in these supplemental analyses, weighted by the number of years data were available, the number of counties in the State, and the mean penetration of WIC in the State are as presented.

In summary, the results for three of the five measures are strongly confirmatory of the central analyses of this report. Effects on preterm delivery, fetal death, and mean birthweight, were of greater magnitude than in the central analyses. There was essentially no relationship of WIC penetration to mean duration of gestation, and neonatal death, in these States.

Rate of Preterm Delivery (Table III-D-1):

There were five States available with incomplete data. In four of the five, WIC penetration was related to reduced preterm delivery. The weighted mean decrease was 1.02 percent, compared to 0.92 percent for the central analysis.

Duration of Gestation (Table III-D-2):

There were five States available. The weighted mean estimated increase in duration of gestation associated with WIC benefits was only 0.02 weeks, compared to 0.20 weeks in the central analyses.

Birthweight (Table III-D-3):

The estimated mean increase in birthweight among WIC recipients in the five States was 36 grams, with a range from 8 to 85 grams. The weighted mean of 36 grams was greater than the 23 to 25 grams estimate from the main analysis.

Fetal Death Rate (Table III-D-4):

The estimated decrease in fetal death rate among WIC recipients in these four States ranged from 0 to 16 per thousand, with a weighted mean of 4.6 per thousand, which is greater than the estimates of 2.1 to 3.1 for the total population. Given this effect size, if these results were to be amalgamated into the main analysis, the significance level would increase.

Neonatal Death Rate (Table III-D-5):

On average, there was an association of WIC benefits with a slight decrease in neonatal death in the 10 States in this analysis. The range

across States was wide, from a reduction of 19 per thousand to an increase of 19 per thousand. WIC recipients were estimated to have infants with a decreased chance of neonatal death of 0.3 per thousand births, compared to a decrease of 2.1 per thousand births in the central analysis.

Table III-D-1

Duration of Gestation <37 weeks (%) and WIC Penetration, States With Missing Data for Several Years Between 1972-1980

State	n of counties	Years not available	Mean penetration	Estimated effect of WIC ^a			p
				1980 penetration	Full penetration	For program participants	
a	153	72,74-78	0.59	-0.40	-1.05	-2.71	0.75
b	64	75-76	0.56	0.20	0.44	1.15	0.49
c	82	74-76	0.48	-0.19	-0.44	-1.15	0.12
d	81	74-75	0.39	0.02	0.06	0.16	0.94
e	53	75-77	0.16	-0.41	-2.78	-7.20	0.18
Total	2284	county-years			-0.39	-1.02	

^aWIC effects for total counties weighted by number of county-years and mean State penetration.

Table III-D-2

Mean Duration of Gestation (weeks) and WIC Penetration, States With Missing Data for Several Years
Between 1972-1980

State	n of counties	Years not available	Mean penetration	Estimated effect of WIC ^a			p
				1980 penetration	Full penetration	For program participants	
a	53	75-77	0.16	0.06	0.42	1.10	0.19
b	81	74-75	0.39	-0.01	-0.03	-0.07	0.84
c	82	74-76	0.48	0.02	0.05	0.12	0.48
d	64	75-76	0.56	0.03	0.06	0.15	0.60
e	153	72,74-78	0.59	-0.05	-0.13	-0.33	0.78
Total	2284	county-years			0.01	0.02	

^aWIC effects for total counties weighted by number of county-years and mean State penetration.

Table III-D-3

Mean Birthweight (g) and WIC Penetration, States With Missing Data for Several Years Between 1972-1980

State	n of counties	Years not available	Mean penetration	Estimated effect of WIC ^a			p
				1980 penetration	Full penetration	For program participants	
a	153	74-78	0.45	8.90	23.14	59.93	0.67
b	64	75-76	0.56	5.44	11.98	31.03	0.26
c	82	74-76	0.48	4.76	10.80	27.97	0.15
d	53	75-77	0.16	4.88	32.98	85.43	0.48
e	81	74-75	0.39	1.14	3.12	8.08	0.84
Total	2437	county-years			13.82	35.80	

^aWIC effects for total counties weighted by number of county-years and mean State penetration.

Table III-D-4

Fetal Mortality/1000 (>28 weeks Gestation) and WIC Penetration, States With Missing Data for Several Years Between 1972-1980

State	n of counties	Years not available	Mean penetration	Estimated effect of WIC ^a		
				1980 penetration	Full penetration	For program participants p
a	49	72-74	0.77	-1.28	-2.35	-6.09
b	64	75-76	0.56	-0.03	-0.06	-0.14
c	81	72-75	0.52	-0.94	-2.59	-6.70
d	5	72-75	1.10	-3.99	-6.34	-16.43
Total	1172	county years			-1.77	-4.58

^aWIC effects for total counties weighted by number of county-years and mean State penetration.

Table III-D-5

Neonatal Mortality/1000 and WIC Penetration, States With Missing Data for Several Years Between 1972-1980

State	n of counties	Years not available	Mean penetration	Estimated effect of WIC ^a			p
				1980 penetration	Full penetration	For program participants	
a	25	75-76	0.25	0.35	2.12	5.50	0.76
b	53	75-77	0.16	1.06	7.19	18.62	0.24
c	5	72-75	1.10	-4.55	-7.22	-18.71	0.46
d	81	72-75	0.52	-1.38	-3.80	-9.84	0.14
e	82	74-76	0.48	-0.44	-1.00	-2.58	0.33
f	16	72	0.37	0.03	0.07	0.18	0.99
g	64	72-76	0.89	-0.81	-1.79	-4.64	0.43
h	92	72	0.14	1.03	5.85	15.14	0.05
i	100	72-74	0.41	0.71	2.04	5.29	0.19
j	49	72-76	0.93	-0.29	-0.59	-1.40	0.83
Total	3331	county-years			-0.13	0.33	

^aWIC effects for total counties weighted by number of county-years and mean State penetration.

APPENDIX III-E: ESTIMATES OF EFFECTS AMONG WIC BENEFICIARIES IF ALL
WERE CONTRIBUTED BY THEM

If the proportion of all births served by WIC in the counties under study were known, the effects on WIC recipients could be estimated if it is assumed that all benefits to the total population arise from the subgroup served. (This may not be entirely true, but this does give an accurate estimate of total benefits derived from one unit of service, to one woman, whether the benefits are only to her, or are also shared with others). In general

$$D = pd_{-w} + (1-p)d_w$$

where

D = estimated mean change in the total population given 100-percent penetration

d_w = change in WIC population

d_{-w} = change in non-WIC population

p = proportion of all pregnancies served by WIC.

If $d_{-w} = 0$, then $d_w = D/p$.

It is estimated from the census that one-third of all women of child-bearing age in the study States in 1980 had family incomes under 195 percent of poverty level.* Thus, it is estimated that one-third of births are to these women (this may be slightly low, given that women of lower social status may have higher birth rates). Therefore,

$$d_w = D/(1/3) = 3D$$

Thus, if the entire county level effect of the WIC program is contributed only by direct WIC recipients, the mean effect for WIC recipients is three times the estimate for countywide change at 100-percent penetrance.

*The ratio rises to 0.38 after weighting the contribution of each county to outcomes by the proportion of eligible women. This is an increase of 16 percent. This 16-percent increase was also applied to the proportion of women eligible for WIC within the subgroups.

APPENDIX III-F: PROCEDURE FOR MEASURING FOR AUTOCORRELATION*

The outcome variables are denoted as $y(ij)$ and WIC penetration of county i at time j as $w(ij)$. The dependent variable is regressed on WIC penetration $[w(ij)]$, and the residual from the regression analysis is calculated. The residual is then arrayed by county and time, and the variance-covariance matrix of the residuals is determined. The autocorrelation coefficient (r) is estimated, using the formula

$$r = \frac{\frac{8}{9} c + \frac{1}{9} v}{\frac{7}{9} v + \frac{16}{81} c}$$

where

c = the average covariance between adjacent time points, and

v = the average variance for the time points. (There are 9 years under study.)

The estimate of r is then used to transform both $y(ij)$ and $w(ij)$ using the formulas

$$y(ij)^* = y(ij) - r y(i, j-1)$$

and

$$w(ij)^* = w(ij) - r w(i, j-1)$$

where

$y(i, j-1)$ and $w(i, j-1)$ = the values for county i at time $j-1$ (the previous year).

Since the initial year of the series ($j=1$) does not have any value for $j-1$, the transformation is done using the formulas

$$y(i1)^* = y(i1) \sqrt{1 - r^2}$$

and

$$w(i1)^* = w(i1) \sqrt{1 - r^2} .$$

*From Dr. D. Kenny.

The transformed data $y(ij)^*$ and $w(ij)^*$ are then applied in a regression analysis, in which the resulting tests of significance are unbiased. If positive autocorrelation was present in the original analysis, the repeated analysis generally results in reduced levels of significance.

APPENDIX III-G: EFFECT OF CHANGE IN DURATION OF GESTATION ON PREVALENCE
OF WOMEN PARTICIPANTS IN WIC AND PENETRATION RATE

Assuming 13 months of participation in WIC, 1-week-shortened gestation reduces prevalence and penetration by

$$\frac{1 \text{ week}}{13 \text{ months}} = \frac{0.25}{13} \text{ months} = 0.0192 = 1.92 \text{ percent} ,$$

and 1-day-shortened gestation reduces prevalence and penetration by

$$\frac{1.92 \text{ percent}}{7 \text{ days}} = 0.27 \text{ percent} .$$

APPENDIX III-H: WIC PENETRATION AND FETAL MORTALITY

1. Test of homogeneity of effect of WIC penetration combining States with complete data with States with data missing for some years

The necessity of separate parameters to estimate the WIC penetration effect for the States with missing data can be tested by the F test:

$$F = \frac{\frac{(R2F - R2R)}{(d.f.F - d.f.R)}}{\frac{(1 - R2F)}{d.f.F}}$$

where

R2F = the proportion of variance explained by a regression model including separate estimates of WIC penetration effect for the States with missing data and the combined States with complete data (full model),

R2R = the proportion of variance explained by a regression model with a single estimate of WIC effect (reduced model),

d.f.F = error degrees of freedom for the full model, and

d.f.R = error degrees of freedom for the reduced model.

By substituting the results of the analyses

$$F = \frac{\frac{(0.000851 - 0.000587)}{4}}{\frac{(1 - 0.000851)}{8538}} = 0.56$$

The small F value of 0.56 indicates that there is no significant departure from the single estimate of WIC penetration in the full model.

2. Estimate of effect of WIC penetration combining States with and without complete data

The single estimate of WIC effect from the reduced model is -2.30 (p = 0.036), assuming that the entire effect is due to WIC participants.

CHAPTER V APPENDIXES

Table V-A-1

Additional Sources of Nutrient Data

Manufacturers

General Foods
General Mills
Gerber Products Co.
ITT Continental Baking Co., Inc.
Kelloggs Co.
McDonald's Corp.
Mead Johnson
Quaker Foods
Ralston Purina
Ross Laboratories
Stokeley Van Camp
Tastykake, Inc.

Federal WIC staff contacted

Ruth Hirsch
Mary Sloan

Additional database

Standard reference file

Table V-A-2

Foods Classified as WIC Foods

Milk

Whole milk
Skim milk
Nonfat milk
Cultured buttermilk
Evaporated whole milk
Evaporated skimmed milk
Dry whole milk
Nonfat or lowfat dry milk

Cheese

Natural swiss
Mozzarella (whole or skim)
Monterey Jack
Brick
Colby
Natural cheddar
Muenster
Provolone
American

Eggs

Eggs, fresh
Dried egg mix
Eggs cooked any style (including w/fat)

Legumes

Mature dry beans or peas
Lentils
Black beans
Navy beans
Kidney beans
Garbanzo beans
Soy beans
Pinto beans
Mung beans
Crowder beans
Cow peas
Split peas
Blackeyed peas
Peanut butter
Refried beans
Homemade pea or bean soup

(continued)

Cereals

Body Buddies, Brown Sugar and Honey (General Mills)
Body Buddies, Natural Fruit Flavor (General Mills)
Concentrate (Kelloggs)
Country Corn Flakes (General Mills)
Corn Total (General Mills)
Cream of Wheat, Regular (Nabisco)
Cream of Wheat, Quick (Nabisco)
Cream of Wheat, Instant (Nabisco)
Cream of Wheat, Mix'n Eat, Regular (Nabisco)
Fortified Oat Flakes (Post)
Kaboom (General Mills)
King Vitamin (Quaker Oats)
Kix (General Mills)
Malt-O-Meal, Chocolate Flavored (Malt-O-Meal)
Malt-O-Meal, Quick (Malt-O-Meal)
Maypo 30-Second Oatmeal (Standard Milling Co.)
Maypo Vermont Style Hot Oat Cereal (Standard Milling Co.)
Most (Kelloggs)
Product 19 (Kelloggs)
Smart Start (Kelloggs)
Total (General Mills)
Wheat Hearts (General Mills)
40% Bran Flakes (Kelloggs)

Infant Cereals

All dry infant cereals
(Minimum 45 mg iron/100 gm dry cereal)

Juice

Orange juice
Grapefruit juice
Orange-grapefruit juice
All infant juices

Infant formulas (minimum 10 mg iron/liter of formula)

Enfamil w/iron
Isomil
I-soyalac
Lofenalac
Meat Base Formula
Nursoy
Nutramigen
Portagen
Progestimil
Prosobee
Similac w/iron
Similac, advance
SMA
Soyalac

Table V-A-3

Covariates Used in Dietary Regression Analyses

Variable Name	Variable Definition and Units	Mean	Standard Deviation
WICCAT1	WIC at Registration and at Followup = 1, Others = 0	0.795 ^a	
WICCAT2	Control at Registration, WIC at Followup = 1, Others = 0	0.052	
GESTT1	Duration of Gestation at Initial Interview (d)	124.7	41.0
CATETH1	White Hispanic = 1, vs. White Non-hispanic = 0	0.177	
CATETH2	Black = 1, vs. White, Nonhispanic = 0	0.294	
CATETH3	Other Ethnicity = 1, vs. White Non-hispanic = 0	0.027	
INCOME	Yearly Income (dollars/100)	73.8	41.0
CATINC4	Income Missing = 1, Not Missing = 0	0.157	
HHSIZE	Household Size (n)	3.9	2.0
MOMAGE	Mother's Age (y)	22.2	4.9
PARITY	Parity (n)	0.97	1.20
MOMHT	Mother's Height (cm)	161.4	6.9
MOMED	Years of Education, Mother(y)	10.8	2.1
FATED	Years of Education, Father (y)	11.1	2.2
CATFED3	Father's Education Missing = 1, Not Missing = 0	0.077	
CATMOCC1	Mother: Farmworker = 1, vs. Physical Labor, Service, Manufacturing = 0	0.018	
CATMOCC2	Mother: Sales Worker, Skilled Trade, Clerical = 1, vs. Physical Labor, Service, Manufacturing = 0	0.235	
CATMOCC3	Mother: Professional Worker = 1, vs. Physical Labor, Service, Manufacturing = 0	0.035	
CATMOCC4	Mother: Has Never Worked = 1, vs. Physical Labor, Service, Manufacturing = 0	0.24	
CATFOCC1	Father: Farm Worker = 1, vs. Physical Labor, Service, Manufacturing = 0	0.051	
CATFOCC2	Father: Sales Worker, Skilled Trade, Clerical = 1, vs. Physical Labor, Service, Manufacturing = 0	0.192	
CATFOCC3	Father: Professional Worker = 1, vs. Physical Labor, Service, Manufacturing = 0	0.046	
CATFOCC4	Father: Never Worked = 1, vs. Physical Labor, Service, Manufacturing = 0	0.163	
MARITAL	Mother Married = 1, vs. Not Married = 0	0.473	
LIVWFAT	Father in Home = 1, vs. Father Not in Home = 0	0.552	
CATMEMP1	Mother Employed = 1, vs. Housewife, Student, Disabled = 0	0.159	

(continued)

Table V-A-3 (continued)

Variable Name	Variable Definition and Units	Mean	Standard Deviation
CATMEMP2	Mother Unemployed = 1, vs. Housewife, Student, Disabled = 0	0.259	
CATFEMP1	Father Employed = 1, vs. Unemployed = 0	0.362	
CATFEMP2	Father Retired, In Jail, Deceased = 1, vs. Unemployed = 0	0.141	
AFDC	Mother on AFDC = 1, Others = 0	0.169	
MEDICAID	Mother on Medicaid = 1, Others = 0	0.236	
CATFDST	Mother gets Food Stamps = 1, Others = 0	0.404	
EXERT1	Physical Work Required at Mother's Work, Initial Interview, Heavy = 1, Moderate = 2, Little = 3	2.9	
HRSFEET1	Mother's Time on Feet at Work, Initial Interview, Most = 1, Part = 2, Little = 3, None = 4	3.6	
HRSWORK1	Hours Mother Works/Week, Initial Interview (hr)	4.7	11.6
MOMSMOKE	Cigarettes Smoked/Day by Mother, Initial Interview (n)	4.2	7.2
USUAL1	Mother's Diet at Initial Interview Not Usual = 1, Usual = 0	0.366	
KITCHEN	Complete Kitchen Facilities in Home = 1, None = 0	0.978	
GESTT2	Duration of Gestation at Followup Interview (d) ^b	236.3	16.6
USUAL2	Diet at Followup Interview Not Usual = 1, Usual = 0 ^b	0.310	
EATEDNUM	Number of Nutrition Education Sessions (n) ^c	2.05	2.28
EATEDCNG	Diet effected by Nutrition Education = 1, Not effected = 0 ^c	0.523	
EATEDCN2	Diet effected by Nutrition Education Missing = 1, Not Missing = 0 ^c	0.190	
EATWHO1	Nutrition Education by WIC Staff = 1, Other = 0 ^c	0.576	
EATWHO2	Nutrition Education by Non-WIC Health Staff = 1, Other = 0 ^c	0.290	
EATWHO3	Nutrition Education by Others = 1, Other = 0 ^c	0.142	
T2PICA	Pica Prior to Followup = 1, Others = 0 ^c	0.023	
HRSWORK2	Hours Working/Week at Followup Interview (hrs.) ^c	2.8	9.3
HRSFEET2	Mother's Time on Feet at Work, Followup Interview, Most = 1, Part = 2, Little = 3, None = 4 ^c	3.8	

(continued)

Table V-A-3 (continued)

Variable Name	Variable Definition and Units	Mean	Standard Deviation
EXERT2	Physical Work Required at Mother's Work, Followup Interview, Heavy = 1, Moderate = 2, Little = 3 ^c	2.9	
T2SMOKE	Number of Cigarettes/Day at Followup Interview (n) ^c	4.3	7.7
NOVISIT2	Number of Prenatal Care Visits at Followup Interview (n) ^c	7.0	3.2
NUT101	Energy Intake at Initial Interview (kcal)	1992	915
NUT201	Energy Intake at Followup Interview (kcal) ^b	2001	859
NUT102	Protein Intake at Initial Interview (g)	79.8	41.2
NUT202	Protein Intake at Followup Interview (g) ^b	80.2	41.1
NUT103	Fat Intake at Initial Interview (g)	84.5	48.9
NUT203	Fat Intake at Followup Interview (g) ^b	82.5	45.4
NUT104	Carbohydrate Intake at Initial Interview (g)	232.5	114.4
NUT204	Carbohydrate Intake at Followup Interview (g) ^b	239.1	110.1
NUT105	Calcium Intake at Initial Interview (mg)	952	660
NUT205	Calcium Intake at Followup Interview (mg) ^b	986	617
NUT106	Iron Intake at Initial Interview (mg)	14.4	9.6
NUT206	Iron Intake at Followup Interview (mg) ^b	16.8	13.5
NUT107	Magnesium Intake at Initial Interview (mg)	260	144
NUT207	Magnesium Intake at Followup Interview (mg) ^b	265	135
NUT108	Phosphorus Intake at Initial Interview (mg)	1344	715
NUT208	Phosphorus Intake at Followup Interview (mg) ^b	1364	672
NUT109	Vitamin A Intake at Initial Interview (IU)	6074	9227
NUT209	Vitamin A Intake at Followup Interview (IU) ^b	6783	9190
NUT110	Thiamin Intake at Initial Interview (mg)	1.51	1.00
NUT210	Thiamin Intake at Followup Interview (mg) ^b	1.71	1.24
NUT111	Riboflavin Intake at Initial Interview (mg)	2.03	1.47
NUT211	Riboflavin Intake at Followup Interview (mg) ^b	2.29	1.72

(continued)

Table V-A-3

Variable Name	Variable Definition and Units	Mean	Standard Deviation
NUT112	Niacin Intake at Initial Interview (mg)	19.33	12.97
NUT212	Niacin Intake at Followup Interview (mg) ^b	21.50	16.30
NUT113	Vitamin B6 Intake at Initial Interview (mg)	1.61	1.18
NUT213	Vitamin B6 Intake at Followup Interview (mg) ^b	1.86	1.51
NUT114	Vitamin B12 Intake at Initial Interview (mcg)	5.44	10.56
NUT214	Vitamin B12 Intake at Followup Interview (mcg) ^b	6.49	12.46
NUT115	Vitamin C Intake at Initial Interview (mg)	125	123
NUT215	Vitamin C Intake at Followup Interview (mg) ^b	139	135

^aFor dichotomous variables, mean = proportion of subjects scored 1, i.e., WICCAT1 of 0.795 = 79.5% of women were in the control WIC sample.

^bIncluded only in Regression Models for Followup Interview.

^cIncluded only in Regression Models for Followup Interview with possible Mediating Variables.

Table V-B-1

Multiple Regression Analyses of Caloric Intake
from 24 Hour Dietary Recalls

Total energy (kcal) intake at initial interview controlled
for duration of gestation at registration

		SSE	2895800033	F RATIO	4.44
		DPE	3469	PROB>P	0.0042
		MSE	834765.1	R-SQUARE	0.0038
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	1836.296	59.610623	30.8048	0.0001
WICCAT1	1	-23.450786	43.548722	-0.5385	0.5903
WICCAT2	1	42.316500	78.803630	0.5370	0.5913
GESTT1	1	1.383898	0.382626	3.6168	0.0003

Total energy (kcal) intake at initial interview controlled for
gestation at registration and maternal characteristics at
registration into study^a

		SSE	2789287803	F RATIO	3.81
		DPE	3434	PROB>P	0.0001
		MSE	812256.2	R-SQUARE	0.0405
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	1458.33	467.193359	3.1215	0.0018
WICCAT1	1	-14.435224	44.638121	-0.3234	0.7464
WICCAT2	1	49.261811	78.713547	0.6258	0.5315
GESTT1	1	1.149686	0.383722	2.9961	0.0028
CATETH1	1	44.637721	49.705812	0.8980	0.3692
CATETH2	1	98.988468	41.078339	2.4097	0.0160
CATETH3	1	192.979167	97.535192	1.9786	0.0479
INCOME	1	1.390231	0.428165	3.2470	0.0012
CATINC4	1	-17.401939	44.628188	-0.3899	0.6966
HBSIZE	1	-16.517342	9.069015	-1.8213	0.0686
MOHAGE	1	-18.231442	4.527919	-4.0265	0.0001
PARITY	1	-18.486516	19.089966	-0.9684	0.3329
MOHHT	1	5.100328	2.349090	2.1712	0.0300
MOHED	1	5.266073	9.269481	0.5681	0.5700
PATED	1	-5.240578	8.562783	-0.6120	0.5406
CATPED3	1	52.405216	62.304226	0.8411	0.4003
CATHOCC1	1	-101.113803	122.327077	-0.8266	0.4085
CATHOCC2	1	90.773068	40.349426	2.2497	0.0245
CATHOCC3	1	182.713624	89.541663	2.0405	0.0414
CATHOCC4	1	12.742196	42.554485	0.2994	0.7646
CATPOCC1	1	155.877432	75.323132	2.0694	0.0386
CATPOCC2	1	34.383836	41.174236	0.8351	0.4037
CATPOCC3	1	88.991107	78.716141	1.1305	0.2583
CATPOCC4	1	-27.983029	50.454460	-0.5546	0.5792
CATHAR1	1	-85.094242	53.192146	-1.5998	0.1097
LIVWPAT	1	27.986133	53.073691	0.5273	0.5980
CATHEMP1	1	-227.042786	127.037020	-1.7872	0.0740
CATHEMP2	1	-30.250045	40.529383	-0.7464	0.4555
CATFEMP1	1	20.512788	35.358653	0.5801	0.5619
CATFEMP2	1	23.565707	53.750930	0.4384	0.6611
APDC	1	27.722289	47.367356	0.5853	0.5584
CATHDC1	1	-6.939822	40.472304	-0.1715	0.8639
CATPDST	1	83.703873	37.401668	2.2380	0.0253
EXERT1	1	51.089341	66.408039	0.7693	0.4418
HRSFEET1	1	-51.834200	39.203094	-1.3222	0.1862
HRSWORK1	1	6.851459	2.988203	2.2928	0.0219
MOHSMOKE	1	8.642060	2.306856	3.7463	0.0002
USUAL1	1	-174.334677	31.999851	-5.4480	0.0001
KITCHEN	1	-69.485119	106.526384	-0.6523	0.5143

Table V-B-1 (continued)

Total energy (kcal) intake at followup interview, controlled for initial nutrient intake and duration of gestation at both interviews

		SSE	2348531149	F RATIO	62.85
		DPE	3467	PROB>F	0.0001
		MSE	677395.8	R-SQUARE	0.0831
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	1213.388	204.944495	5.9206	0.0001
NUT101	1	0.266357	0.015296	17.4138	0.0001
WICCAT1	1	81.835473	39.255403	2.0847	0.0372
WICCAT2	1	141.983571	71.002811	1.9997	0.0456
GESTT1	1	-1.133501	0.355723	-3.1865	0.0015
GESTT2	1	1.376070	0.867448	1.5868	0.1126

Total energy (kcal) intake at followup interview, controlled for initial intake, duration of gestation at both interviews and maternal characteristics at registration into study

		SSE	2260643889	F RATIO	11.13
		DPE	3431	PROB>F	0.0001
		MSE	658887.8	R-SQUARE	0.1174
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	923.962911	468.335654	1.9729	0.0486
NUT101	1	0.263316	0.015371	17.1302	0.0001
WICCAT1	1	110.752914	40.227950	2.7531	0.0059
WICCAT2	1	142.068242	70.909449	2.0035	0.0452
GESTT1	1	-1.208174	0.356864	-3.3855	0.0007
GESTT2	1	1.636024	0.861445	1.8992	0.0576
CATETH1	1	71.105516	44.897361	1.5837	0.1133
CATETH2	1	29.076367	37.084706	0.7841	0.4331
CATETH3	1	-124.320113	87.906117	-1.4142	0.1574
INCOME	1	0.227100	0.386244	0.5880	0.5566
CATINC4	1	23.440490	40.218117	0.5828	0.5600
HHSIZE	1	-2.292529	8.172061	-0.2805	0.7791
HOMAGE	1	-4.870771	4.088945	-1.1912	0.2337
PARITY	1	-22.765306	17.202155	-1.3234	0.1858
HOMRT	1	1.390953	2.118612	0.6565	0.5115
HOMED	1	0.733565	8.349962	0.0879	0.9300
FATED	1	4.907577	7.713999	0.6362	0.5247
CATPED3	1	-40.691019	56.172203	-0.7244	0.4689
CATMOCC1	1	274.347782	110.241603	2.4886	0.0129
CATMOCC2	1	29.907631	36.383033	0.8220	0.4111
CATMOCC3	1	181.574003	80.701550	2.2499	0.0245
CATMOCC4	1	21.179600	38.354332	0.5522	0.5808
CATPOCC1	1	-16.704495	67.906133	-0.2460	0.8057
CATPOCC2	1	14.851839	37.090852	0.4004	0.6889
CATPOCC3	1	16.503521	70.937661	0.2326	0.8160
CATPOCC4	1	-56.688551	45.447098	-1.2474	0.2124
CATHAB1	1	-25.854938	47.934738	-0.5394	0.5897
LIVHPAT	1	23.645850	47.805217	0.4946	0.6209
CATHEMP1	1	-2.737476	114.481176	-0.0239	0.9809
CATHEMP2	1	13.245694	36.521384	0.3627	0.7169
CATPEMP1	1	8.055750	31.878459	0.2527	0.8005
CATPEMP2	1	-15.677822	48.478174	-0.3234	0.7464
APDC	1	14.872151	42.665729	0.3486	0.7274
CATHDC1	1	37.165017	36.473417	1.0190	0.3083
CATPDST	1	-31.216807	33.715415	-0.9259	0.3546
EXERT1	1	46.754020	59.833291	0.7814	0.4346
HRSFEET1	1	-27.303003	35.326836	-0.7729	0.4397
HRSWORK1	1	-1.353126	2.693513	-0.5024	0.6154
HOMSHOKE	1	1.164434	2.082385	0.5592	0.5761
USUAL1	1	120.790846	29.270829	4.1267	0.0001
KITCHEN	1	25.173167	95.965679	0.2623	0.7931
USUAL2	1	-276.802451	30.463233	-9.0864	0.0001

Table V-B-1 (continued)

Total energy (kcal) intake at followup interview, controlled for initial intake, duration of gestation at both interviews, maternal characteristics at registration and changes during pregnancy after enrollment (possible mediating factors)

		SSE	2245277136	F RATIO	9.08
		DPE	3419	PROB>F	0.0001
		MSE	656705.8	R-SQUARE	0.1234
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	961.232635	510.251511	1.8838	0.0597
NUT101	1	0.261800	0.015359	17.0454	0.0001
WICCAT1	1	78.696430	46.469888	1.6935	0.0905
WICCAT2	1	110.039541	72.849291	1.5105	0.1310
GESTT1	1	-1.119344	0.367557	-3.0454	0.0023
GESTT2	1	1.436801	0.888957	1.6163	0.1061
CATETH1	1	66.496000	45.129613	1.4734	0.1407
CATETH2	1	-29.870441	37.673429	-0.7929	0.4279
CATETH3	1	-111.928191	87.910217	-1.2732	0.2030
INCOME	1	0.156152	0.387090	0.4034	0.6867
CATINC4	1	-31.832714	40.248972	-0.7909	0.4291
HHSIZE	1	-0.737671	8.173780	-0.0902	0.9281
HOMEAGE	1	-4.238523	4.101888	-1.0333	0.3015
PARITY	1	-19.841468	17.252079	-1.1501	0.2502
HOMEHT	1	1.320483	2.120591	0.6227	0.5335
HOMEED	1	0.853553	8.365459	0.1020	0.9187
PATED	1	5.147275	7.724106	0.6664	0.5052
CATPED3	1	-38.833338	56.191379	-0.6911	0.4896
CATHOCC1	1	295.361707	110.339235	2.6769	0.0075
CATHOCC2	1	-30.207873	36.440487	-0.8290	0.4072
CATHOCC3	1	169.693472	80.815117	2.0998	0.0358
CATHOCC4	1	32.094041	38.443363	0.8348	0.4039
CATPOCC1	1	-26.142991	67.938402	-0.3848	0.7004
CATPOCC2	1	13.617893	37.072753	0.3673	0.7134
CATPOCC3	1	20.320856	70.954868	0.2864	0.7746
CATPOCC4	1	-52.133030	45.437326	-1.1474	0.2513
CATHAR1	1	-22.106933	47.936766	-0.4612	0.6447
LIVSPAT	1	25.843102	47.839330	0.5402	0.5891
CATHEHP1	1	-1.029530	114.988240	-0.0090	0.9929
CATHEHP2	1	15.526720	36.581730	0.4244	0.6713
CATFEMP1	1	12.934938	31.901404	0.4055	0.6852
CATFEMP2	1	-11.253849	48.464327	-0.2322	0.8164
APDC	1	6.129445	42.759644	0.1433	0.8860
CATHDC1	1	41.223093	36.615156	1.1258	0.2603
CATPDST	1	-29.745225	33.731755	-0.8818	0.3779
EXERT1	1	48.879396	60.963985	0.8018	0.4227
HRSPEET1	1	-32.894299	36.504890	-0.9011	0.3676
HRSWORK1	1	-0.998915	2.772488	-0.3603	0.7186
HOME SMOKE	1	0.159754	3.414396	0.0468	0.9627
USUAL1	1	117.858362	29.251293	4.0292	0.0001
KITCHEN	1	14.862697	96.171970	0.1545	0.8772
USUAL2	1	-279.217771	30.514094	-9.1505	0.0001
PATEDCNG	1	36.907340	32.856011	1.1233	0.2614
PATEDCN2	1	-45.439170	56.075814	-0.8103	0.4178
EATVH01	1	23.294209	44.321867	0.5256	0.5992
EATVH02	1	72.651728	39.758300	1.8273	0.0677
EATVH03	1	-14.278189	44.791997	-0.3188	0.7499
EATEDNUH	1	8.604503	7.171705	1.1998	0.2303
T2PICA	1	84.951035	92.639884	0.9170	0.3592
HRSWORK2	1	-0.697176	2.754267	-0.2531	0.8002
HRSPEET2	1	27.166982	43.613939	0.6229	0.5334
EXERT2	1	-52.112772	98.172685	-0.5308	0.5956
T2SMOKE	1	1.685494	3.205267	0.5259	0.5990
NOVISIT2	1	2.702328	4.719763	0.5726	0.5670

Table V-B-1 (continued)

Energy (kcal) intake from potential WIC foods at initial interview,
controlled for duration of gestation at registration

		SSE	420640927	F RATIO	7.61
		DPE	3469	PROB>F	0.0001
		MSE	121257.1	R-SQUARE	0.0065
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	329.756879	22.719310	14.5144	0.0001
WICCAT1	1	41.764661	16.597661	2.5163	0.0119
WICCAT2	1	-15.517972	30.034313	-0.5167	0.6054
GESTT1	1	0.450790	0.145830	3.0912	0.0020

Energy (kcal) intake from potential WIC foods at initial interview,
controlled for gestation at registration and maternal characteristics
at registration into study

		SSE	400418020	F RATIO	5.19
		DPE	3434	PROB>F	0.0001
		MSE	116604	R-SQUARE	0.0543
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	419.355614	177.013669	2.3691	0.0179
WICCAT1	1	46.703516	16.912821	2.7614	0.0058
WICCAT2	1	-13.055182	29.823570	-0.4377	0.6616
GESTT1	1	0.346934	0.145387	2.3863	0.0171
CATETH1	1	74.907303	18.832905	3.9775	0.0001
CATETH2	1	-72.867289	15.564064	-4.6818	0.0001
CATETH3	1	-5.239616	36.954854	-0.1418	0.8873
INCOME	1	0.021530	0.162226	0.1327	0.8944
CATINC4	1	14.473306	16.909057	0.8559	0.3921
BHSIZE	1	-2.721378	3.436136	-0.7920	0.4284
HOMAGE	1	-0.908256	1.715571	-0.5294	0.5965
PARITY	1	-2.421336	7.232947	-0.3348	0.7378
MOHRT	1	0.957771	0.890041	1.0761	0.2820
MOHED	1	-3.932026	3.512089	-1.1196	0.2630
PATED	1	-1.850023	3.244330	-0.5702	0.5686
CATPED3	1	-10.459521	23.606285	-0.4431	0.6577
CATMOCC1	1	96.625594	46.348186	2.0848	0.0372
CATMOCC2	1	23.077888	15.287888	1.5096	0.1312
CATMOCC3	1	4.096103	33.926206	0.1207	0.9039
CATMOCC4	1	10.520295	16.123358	0.6525	0.5141
CATFOCC1	1	64.346911	28.538984	2.2547	0.0242
CATFOCC2	1	11.803915	15.600399	0.7566	0.4493
CATFOCC3	1	55.241640	29.824553	1.8522	0.0641
CATFOCC4	1	-38.088912	19.116558	-1.9925	0.0464
CATHA1	1	-31.950053	20.153833	-1.5853	0.1130
LIYMPAT	1	11.776510	20.108952	0.5856	0.5582
CATHEMP1	1	-104.419664	48.132724	-2.1694	0.0301
CATHEMP2	1	-12.423104	15.356072	-0.8090	0.4186
CATPEMP1	1	-8.056894	13.396948	-0.6014	0.5476
CATPEMP2	1	20.535029	20.365549	1.0083	0.3134
AFDC	1	47.396529	17.946893	2.6409	0.0083
CATMDC1	1	-6.399404	15.334445	-0.4173	0.6765
CATPDST	1	1.704350	14.171020	0.1203	0.9043
EXERT1	1	-5.386496	25.161168	-0.2141	0.8305
HRSPEET1	1	-9.239027	14.853558	-0.6220	0.5340
HRSWORK1	1	2.053341	1.132192	1.8136	0.0698
HOMSMOKE	1	-0.280337	0.874039	-0.3207	0.7484
USUAL1	1	-70.130220	12.124340	-5.7843	0.0001
KITCHEN	1	-59.366967	40.361503	-1.4709	0.1414

Table V-B-1 (continued)

Energy (kcal) intake from potential WIC foods at followup interview, controlled for initial nutrient intake and duration of gestation at both interviews

		SSE	392827671	F RATIO	77.60
		DPE	3467	PROB>F	0.0001
		MSE	113304.8	R-SQUARE	0.1006
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	200.377882	83.019794	2.4136	0.0158
BNUT101	1	0.294319	-0.016413	17.9324	0.0001
WICCAT1	1	112.984391	16.068782	7.0313	0.0001
WICCAT2	1	148.908422	29.038668	5.1279	0.0001
GESTT1	1	-0.00663593	0.145374	-0.0456	0.9636
GESTT2	1	0.178979	0.354752	0.5045	0.6139

Energy (kcal) from potential WIC foods at followup interview, controlled for initial intake, duration of gestation at both interviews and maternal characteristics at registration into study

		SSE	376033906	F RATIO	13.52
		DPE	3431	PROB>F	0.0001
		MSE	109598.9	R-SQUARE	0.1391
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	224.417967	190.874942	1.1757	0.2398
BNUT101	1	0.273520	0.016548	16.5293	0.0001
WICCAT1	1	128.315464	16.425192	7.8121	0.0001
WICCAT2	1	151.899996	28.919319	5.2525	0.0001
GESTT1	1	-0.002590546	0.145462	-0.0178	0.9858
GESTT2	1	0.157632	0.351334	0.4487	0.6537
CATETH1	1	40.599368	18.349436	2.2126	0.0270
CATETH2	1	-47.295398	15.161828	-3.1194	0.0018
CATETH3	1	-32.348466	35.832189	-0.9028	0.3667
INCOME	1	-0.032725	0.157289	-0.2081	0.8352
CATINC4	1	16.322654	16.404349	0.9950	0.3198
BHSIZE	1	-3.316300	3.331650	-0.9954	0.3196
BOMAGE	1	1.643208	1.663790	0.9876	0.3234
PARITY	1	-15.351538	7.015025	-2.1884	0.0287
BOMHT	1	-0.097539	0.863629	-0.1129	0.9101
BOMED	1	-0.169123	3.405958	-0.0497	0.9604
FATED	1	-0.435160	3.146106	-0.1383	0.8900
CATPED3	1	45.168919	22.907654	1.9718	0.0487
CATHOCC1	1	89.394156	44.984579	1.9872	0.0470
CATHOCC2	1	25.270821	14.832811	1.7037	0.0885
CATHOCC3	1	81.744941	32.893833	2.4851	0.0130
CATHOCC4	1	29.523237	15.643448	1.8873	0.0592
CATPOCC1	1	43.745684	27.698853	1.5793	0.1144
CATPOCC2	1	17.678645	15.127123	1.1687	0.2426
CATPOCC3	1	18.367113	28.940584	0.6346	0.5257
CATPOCC4	1	-15.390788	18.545260	-0.8299	0.4067
CATHAB1	1	14.189142	19.549911	0.7258	0.4680
LIVWPAT	1	0.197954	19.497392	0.0102	0.9919
CATHEMP1	1	-44.247893	46.701084	-0.9475	0.3435
CATHEMP2	1	14.850390	14.895280	0.9970	0.3188
CATPEMP1	1	-0.233395	13.001779	-0.0180	0.9857
CATPEMP2	1	2.727447	19.773796	0.1379	0.8903
APDC	1	21.776133	17.417774	1.2502	0.2113
CATMDC1	1	-14.386974	14.875863	-0.9671	0.3335
CATPDST	1	-14.446713	13.740621	-1.0514	0.2932
EXERT1	1	4.626366	24.401043	0.1896	0.8496
BRSPEET1	1	-8.600765	14.405117	-0.5971	0.5505
BRSWORK1	1	0.533569	1.098230	0.4858	0.6271
BOMSHOKE	1	-1.481847	0.847576	-1.7483	0.0805
USUAL1	1	35.704240	11.943475	2.9894	0.0028
KITCHEN	1	12.400428	39.149473	0.3167	0.7515
USUAL2	1	-96.379350	12.425514	-7.7566	0.0001

Table V-B-1 (continued)

Energy (kcal) intake from potential WIC foods at followup interview,
 controlled for initial intake, duration of gestation at both interviews,
 maternal characteristics at registration and changes during pregnancy
 after enrollment (possible mediating factors)

		SSE	370855318	F RATIO	11.47
		DPE	3419	PROB>F	0.0001
		MSE	108468.9	R-SQUARE	0.1509
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	202.912219	207.276776	0.9789	0.3277
ENUT101	1	-0.270782	-0.016505	-16.4063	0.0001
WICCAT1	1	104.114531	18.897463	5.5094	0.0001
WICCAT2	1	129.217616	29.607543	4.3643	0.0001
GESTT1	1	-0.030358	-0.149327	-0.2033	0.8389
GESTT2	1	0.086891	0.361277	0.2405	0.8099
CATETH1	1	35.889870	18.377579	1.9529	0.0509
CATETH2	1	-49.110017	15.337193	-3.2020	0.0014
CATETH3	1	-24.637864	35.706739	-0.6900	0.4902
INCOME	1	-0.081125	0.157096	-0.5164	0.6056
CATINC4	1	21.045817	16.359526	1.2865	0.1984
RHSIZE	1	-2.571859	3.320650	-0.7745	0.4387
MONAGE	1	1.614353	1.663151	0.9707	0.3318
PARITY	1	-13.473235	7.010796	-1.9218	0.0547
MONHT	1	0.024908	0.861376	0.0289	0.9769
MONED	1	-0.603720	3.400343	-0.1775	0.8591
FATED	1	-0.354885	3.139249	-0.1130	0.9100
CATPED3	1	46.189887	22.834531	2.0228	0.0432
CATHOCC1	1	97.774035	44.865662	2.1793	0.0294
CATHOCC2	1	-24.090085	14.803266	-1.6273	0.1038
CATHOCC3	1	73.348568	32.824688	2.2346	0.0255
CATHOCC4	1	35.439223	15.624922	2.2681	0.0234
CATPOCC1	1	42.381245	27.615613	1.5347	0.1250
CATPOCC2	1	19.322049	15.066682	1.2824	0.1998
CATPOCC3	1	22.304942	28.847065	0.7732	0.4394
CATPOCC4	1	-10.730707	18.475203	-0.5808	0.5614
CATHAR1	1	13.599198	19.481166	0.6981	0.4852
LIVWPAT	1	3.956486	19.442351	0.2035	0.8388
CATHEMP1	1	-48.941195	46.744475	-1.0470	0.2952
CATHEMP2	1	18.028437	14.867887	1.2126	0.2254
CATPEMP1	1	1.421040	12.965211	0.1096	0.9127
CATPEMP2	1	-2.249913	19.698233	-0.1142	0.9091
AFDC	1	17.861600	17.393413	1.0269	0.3045
CATMDC1	1	-11.105567	14.881277	-0.7463	0.4556
CATPDST	1	-12.807209	13.698882	-0.9349	0.3499
EXERT1	1	9.549746	24.774579	0.3855	0.6999
HRSPRET1	1	-16.962070	14.833379	-1.1435	0.2529
HRSHORK1	1	0.493208	1.126614	0.4378	0.6616
MONSHOKE	1	0.803513	1.387093	0.5793	0.5624
USUAL1	1	35.659266	11.893932	2.9981	0.0027
KITCHEN	1	-12.556496	39.094643	-0.3212	0.7481
USUAL2	1	-95.156972	12.402396	-7.6725	0.0001
EATEDCHG	1	37.255813	13.354256	2.7898	0.0053
EATEDCH2	1	-15.734266	22.789563	-0.6904	0.4900
EATWH01	1	29.566649	18.010959	1.6416	0.1008
EATWH02	1	39.804253	16.158206	2.4634	0.0138
EATWH03	1	-22.354222	18.202983	-1.2281	0.2195
EATEDNUM	1	-3.179467	2.915502	-1.0905	0.2756
T2PICA	1	-6.260949	37.691520	-0.1661	0.8681
HRSHORK2	1	0.947413	1.119464	0.8463	0.3974
HRSPRET2	1	35.962158	17.725289	2.0289	0.0425
EXERT2	1	-49.339150	39.899082	-1.2366	0.2163
T2SHOKE	1	-2.457498	1.302740	-1.8864	0.0593
NOVISIT2	1	3.165937	1.918501	1.6502	0.0990

Table V-B-1 (continued)

Proportion of women consuming less than the 100th percentile of the Recommended Energy Intake at initial interview, controlled for duration of gestation at registration

		SSE	670.723518	P RATIO	1.44
		DPE	3469	PROB>P	0.2268
		HSE	0.193348	R-SQUARE	0.0012
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	0.774876	0.028689	27.0098	0.0001
WICCAT1	1	0.006331346	0.020959	0.3021	0.7626
WICCAT2	1	-0.040085	0.037926	-1.0569	0.2906
GESTT1	1	-0.000319491	0.0001841458	-1.7350	0.0828

Proportion of women consuming less than the 100th percentile of the Recommended Energy Intake at initial interview, controlled for duration of gestation at registration and maternal characteristics at registration into study

		SSE	653.308373	P RATIO	2.52
		DPE	3434	PROB>P	0.0001
		HSE	0.190247	R-SQUARE	0.0272
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	0.780992	0.226104	3.4541	0.0006
WICCAT1	1	0.00326821	0.021603	0.1513	0.8798
WICCAT2	1	-0.042179	0.038094	-1.1072	0.2683
GESTT1	1	-0.000230565	0.0001857074	-1.2416	0.2145
CATETH1	1	-0.020720	0.024056	-0.8613	0.3891
CATETH2	1	-0.050946	0.019880	-2.5626	0.0104
CATETH3	1	-0.089512	0.047203	-1.8963	0.0580
INCOME	1	-0.000498692	0.0002072162	-2.4066	0.0162
CATINC4	1	-0.00253678	0.021598	-0.1175	0.9065
HHSIZE	1	0.005883757	0.004389071	1.3405	0.1802
HOMEAGE	1	-0.006133872	0.002191347	-2.7991	0.0052
PARITY	1	0.011685	0.009238843	1.2648	0.2060
HOMEHT	1	-0.00159108	0.001136873	-1.3995	0.1617
HOMEED	1	0.0002468303	0.004486089	0.0550	0.9561
FATED	1	0.0007235137	0.004144073	0.1746	0.8614
CATPED3	1	-0.050427	0.030153	-1.6724	0.0945
CATHOCC1	1	0.090684	0.059202	1.5318	0.1257
CATHOCC2	1	-0.029668	0.019528	-1.5193	0.1288
CATHOCC3	1	-0.052659	0.043335	-1.2152	0.2244
CATHOCC4	1	-0.00660669	0.020595	-0.3208	0.7484
CATPOCC1	1	-0.066197	0.036454	-1.8159	0.0695
CATPOCC2	1	-0.00721401	0.019927	-0.3620	0.7174
CATPOCC3	1	-0.047787	0.038096	-1.2544	0.2098
CATPOCC4	1	0.040447	0.024418	1.6564	0.0977
CATHAB1	1	0.018741	0.025743	0.7280	0.4667
LIVERPAT	1	-0.011519	0.025686	-0.4484	0.6539
CATHEMP1	1	0.168236	0.061481	2.7364	0.0062
CATHEMP2	1	0.001649319	0.019615	0.0841	0.9330
CATPEMP1	1	-0.017353	0.017112	-1.0141	0.3106
CATPEMP2	1	-0.013624	0.026013	-0.5237	0.6005
APDC	1	-0.015247	0.022924	-0.6651	0.5060
CATHDC1	1	0.0006567139	0.019587	0.0335	0.9733
CATPDST	1	-0.00967477	0.018101	-0.5345	0.5930
EXERT1	1	-0.00156556	0.032139	-0.0487	0.9612
HRSFEET1	1	0.030994	0.018973	1.6336	0.1024
HRSWORK1	1	-0.00415313	0.00144618	-2.8718	0.0041
MONSNOKE	1	-0.00275256	0.001116434	-2.4655	0.0137
USUAL1	1	0.061238	0.015487	3.9542	0.0001
KITCHEN	1	0.005458708	0.051555	0.1059	0.9157

Table V-B-1 (continued)

Proportion of women consuming less than the 100th percentile of the Recommended Energy Intake at followup interview, controlled for initial nutrient intake and duration of gestation at both interviews

		SSE	629.562328	F RATIO	43.63
		DPE	3467	PROB>F	0.0001
		MSE	0.181587	R-SQUARE	0.0592
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	1.128485	0.106110	10.6350	0.0001
NUT101	1	-0.000112593	0.00000791941	-14.2174	0.0001
WICCAT1	1	-0.054640	0.020325	-2.6884	0.0072
WICCAT2	1	-0.085097	0.036762	-2.3148	0.0207
GESTT1	1	0.0006326197	0.0001841762	3.4349	0.0006
GESTT2	1	-0.000828183	0.0004491223	-1.8440	0.0653

Proportion of women consuming less than the 100th percentile of the Recommended Energy Intake at followup interview, controlled for initial intake, duration of gestation at both interviews and maternal characteristics at registration into study

		SSE	616.330481	F RATIO	7.17
		DPE	3431	PROB>F	0.0001
		MSE	0.179636	R-SQUARE	0.0790
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	1.374120	0.244539	5.6192	0.0001
NUT101	1	-0.00011129	0.00000802609	-13.8660	0.0001
WICCAT1	1	-0.055970	0.021005	-2.6646	0.0077
WICCAT2	1	-0.081595	0.037025	-2.2038	0.0276
GESTT1	1	0.000677693	0.0001863346	3.6370	0.0003
GESTT2	1	-0.000984243	0.0004497987	-2.1882	0.0267
CATETH1	1	-0.00771202	0.023443	-0.3290	0.7422
CATETH2	1	-0.016390	0.019364	-0.8464	0.3974
CATETH3	1	0.057369	0.045900	1.2499	0.2114
INCOME	1	0.0001428937	0.0002016751	0.0709	0.9435
CATINC4	1	-0.023544	0.021000	-1.1212	0.2623
HBSIZE	1	-0.000856673	0.004266997	-0.2008	0.8409
MOHAGE	1	0.0003125106	0.002135021	0.1464	0.8836
PARITY	1	0.018432	0.008982012	2.0521	0.0402
MOHHT	1	-0.00133981	0.001106222	-1.2112	0.2259
MOHED	1	0.002495301	0.004359887	0.5723	0.5671
PATED	1	-0.00236446	0.004027823	-0.5870	0.5572
CATPED3	1	0.009324358	0.029330	0.3179	0.7506
CATHOCC1	1	-0.164528	0.057562	-2.8583	0.0043
CATHOCC2	1	-0.007746198	0.018997	-0.4078	0.6835
CATHOCC3	1	-0.131058	0.042138	-3.1102	0.0019
CATHOCC4	1	0.005541535	0.020027	0.2767	0.7820
CATPOCC1	1	-0.022597	0.035457	-0.6373	0.5240
CATPOCC2	1	-0.00240929	0.019367	-0.1244	0.9010
CATPOCC3	1	0.044901	0.037040	1.2122	0.2255
CATPOCC4	1	0.031201	0.023730	1.3148	0.1887
CATHAB1	1	-0.00788572	0.025029	-0.3151	0.7527
LIVWPAT	1	0.018090	0.024961	0.7247	0.4687
CATHEMP1	1	0.030263	0.059776	0.5063	0.6127
CATHEMP2	1	0.008426282	0.019069	0.4419	0.6586
CATPEMP1	1	-0.00504681	0.016645	-0.3032	0.7618
CATPEMP2	1	0.018963	0.025313	0.7491	0.4538
APDC	1	-0.012491	0.022278	-0.5607	0.5750
CATNDC1	1	-0.027805	0.019044	-1.4600	0.1444
CATPDST	1	0.006746762	0.017604	0.3832	0.7016
EXERT1	1	0.0003840629	0.031242	0.0123	0.9902
HBSPEET1	1	0.009042091	0.018446	0.4902	0.6240
HBSWORK1	1	0.0003712583	0.001406403	0.2640	0.7918
MOHSMOKE	1	-0.000997379	0.001087306	-0.9173	0.3591
USUAL1	1	-0.043654	0.015284	-2.8563	0.0043
KITCHEN	1	-0.064431	0.050108	-1.2858	0.1986
USUAL2	1	0.073078	0.015906	4.5943	0.0001

Proportion of women consuming less than the 100th percentile of the Recommended Energy Intake at followup interview, controlled for initial intake, duration of gestation at both interviews, maternal characteristics at registration and changes during pregnancy after enrollment (possible mediating factors)

		SSE	613.007857	F RATIO	5.91
		DPE	3419	PROB>F	0.0001
		MSB	0.179294	R-SQUARE	0.0839
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	1.370648	0.266614	5.1410	0.0001
WUT101	1	-0.000110455	0.0000802528	-13.7634	0.0001
WICCAT1	1	-0.041544	0.024281	-1.7110	0.0872
WICCAT2	1	-0.068454	0.038065	-1.7983	0.0722
GESTT1	1	-0.0006232775	0.000192054	3.2453	0.0012
GESTT2	1	-0.000834652	0.0004644928	-1.7969	0.0724
CATETH1	1	-0.00837428	0.023581	-0.3551	0.7225
CATETH2	1	-0.021497	0.019685	-1.0921	0.2749
CATETH3	1	0.053761	0.045934	1.1704	0.2419
INCOME	1	0.0005218333	0.0002022602	0.2580	0.7964
CATINC4	1	-0.027445	0.021031	-1.3050	0.1920
HHSIZE	1	-0.00168243	0.004270916	-0.3939	0.6937
MOHAGE	1	-0.000136936	0.002143294	-0.0064	0.9949
PARITY	1	0.016842	0.009014455	1.8683	0.0618
MOHHT	1	-0.0011781	0.001108039	-1.0632	0.2878
MOHED	1	0.002308053	0.004371071	0.5280	0.5975
FATED	1	-0.00205972	0.004035955	-0.5103	0.6098
CATPED3	1	0.007086662	0.029361	0.2414	0.8093
CATHOCC1	1	-0.174191	0.057654	-3.0213	0.0025
CATHOCC2	1	0.008034445	0.019041	0.4220	0.6731
CATHOCC3	1	-0.125098	0.042227	-2.9625	0.0031
CATHOCC4	1	0.0005280475	0.020087	0.0263	0.9790
CATPOCC1	1	-0.019678	0.035499	-0.5543	0.5794
CATPOCC2	1	-0.00102652	0.019371	-0.0530	0.9577
CATPOCC3	1	0.046014	0.037075	1.2411	0.2147
CATPOCC4	1	0.030947	0.023742	1.3035	0.1925
CATHAR1	1	-0.010854	0.025048	-0.4333	0.6648
LIVHPAT	1	0.018214	0.024997	0.7286	0.4663
CATHEMP1	1	0.025559	0.060083	0.4254	0.6706
CATHEMP2	1	0.007842022	0.019114	0.4103	0.6816
CATPEMP1	1	-0.00688674	0.016669	-0.4131	0.6795
CATPEMP2	1	0.015937	0.025323	0.6293	0.5292
APDC	1	-0.00881541	0.022343	-0.3946	0.6932
CATMDC1	1	-0.028853	0.019132	-1.5081	0.1316
CATPDST	1	0.007253902	0.017625	0.4116	0.6807
EXERT1	1	0.003325274	0.031855	0.1044	0.9169
HRSFEET1	1	0.004896373	0.019074	0.2567	0.7974
HRSWORK1	1	-0.000141908	0.001448664	-0.0980	0.9220
MOHSHOKE	1	0.000175733	0.00178407	0.0985	0.9215
USUAL1	1	-0.041763	0.015284	-2.7324	0.0063
KITCHEN	1	-0.060555	0.050251	-1.2050	0.2283
USUAL2	1	0.075235	0.015944	4.7187	0.0001
EATEDCHG	1	-0.015427	0.017168	-0.8986	0.3689
EATEDCN2	1	0.014488	0.029300	0.4945	0.6210
EATWH01	1	-0.014262	0.023159	-0.6158	0.5380
EATWH02	1	-0.038307	0.020774	-1.8440	0.0653
EATWH03	1	-0.021888	0.023404	-0.9352	0.3497
EATEDNUM	1	-0.00206724	0.003747317	-0.5517	0.5812
T2PICA	1	-0.020218	0.048406	-0.4177	0.6762
HRSWORK2	1	0.001807891	0.001439144	1.2562	0.2091
HRSFEET2	1	0.024189	0.022789	1.0614	0.2886
EXERT2	1	-0.032100	0.051297	-0.6258	0.5315
T2SHOKE	1	-0.00164262	0.001674797	-0.9808	0.3268
NOVISIT2	1	-0.00220261	0.002466143	-0.8931	0.3718

^aTable V-A-3 for specification of covariates.

^bFurther adjusted for changes potentially initiated by WIC program, over and above WIC food benefits (change in nutrition education, smoking, and frequency and exertion in work).

Table V-B-2

Multiple Regression Analyses of Iron Intake
from 24 Hour Dietary Recalls

Total iron (mg) intake at initial interview controlled for
duration of gestation at registration

		SSE	319516.5	F-RATIO	0.63
		DPE	3469	PROB>F	0.5966
		MSE	92.106214	R-SQUARE	0.0005
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	13.718911	0.626161	21.9096	0.0001
WICCAT1	1	0.033325	0.457444	0.0728	0.9419
WICCAT2	1	0.127267	0.827768	0.1537	0.8778
GESTT1	1	0.005479781	0.004019174	1.3634	0.1728

Total iron (mg) intake at initial interview controlled for gestation
at registration and maternal characteristics at registration into study^a

		SSE	314168.9	F RATIO	1.59
		DPE	3434	PROB>F	0.0125
		MSE	91.487744	R-SQUARE	0.0173
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	15.326180	4.958286	3.0910	0.0020
WICCAT1	1	-0.112217	0.473741	-0.2369	0.8128
WICCAT2	1	-0.107369	0.835381	-0.1285	0.8977
GESTT1	1	0.003520705	0.004072411	0.8645	0.3874
CATETH1	1	1.293215	0.527524	2.4515	0.0143
CATETH2	1	0.837486	0.435961	1.9210	0.0548
CATETH3	1	0.789199	1.035133	0.7624	0.4459
INCOME	1	0.006182812	0.004544082	1.3606	0.1737
CATINC4	1	-0.441477	0.473635	-0.9321	0.3513
BHSIZE	1	-0.136764	0.096249	-1.4209	0.1554
MONAGE	1	-0.089812	0.048054	-1.8690	0.0617
PARITY	1	0.001642777	0.202600	0.0081	0.9935
MONHT	1	0.017436	0.024931	0.6994	0.4844
MONED	1	0.006617113	0.098376	0.0673	0.9464
PATED	1	-0.058514	0.090876	-0.6439	0.5197
CATPED3	1	-0.061528	0.661230	-0.0931	0.9259
CATHOCC1	1	-1.738666	1.298248	-1.3392	0.1806
CATHOCC2	1	0.425407	0.428225	0.9934	0.3206
CATHOCC3	1	1.777126	0.950299	1.8701	0.0616
CATHOCC4	1	0.192317	0.451627	0.4258	0.6703
CATFOCC1	1	2.086888	0.799398	2.6106	0.0091
CATFOCC2	1	0.020751	0.436979	0.0475	0.9621
CATFOCC3	1	0.163292	0.835408	0.1955	0.8450
CATFOCC4	1	0.471429	0.535469	0.8804	0.3787
CATHAR1	1	0.201181	0.564524	0.3564	0.7216
LIVWPAT	1	-0.426564	0.563267	-0.7573	0.4489
CATHEHP1	1	-1.531998	1.348234	-1.1363	0.2559
CATHEHP2	1	-0.131948	0.430135	-0.3068	0.7590
CATPEHP1	1	0.257488	0.375259	0.6862	0.4927
CATPEHP2	1	-0.464856	0.570454	-0.8149	0.4152
AFDC	1	0.864211	0.502706	1.7191	0.0857
CATHDC1	1	0.377381	0.429529	0.8786	0.3797
CATPDST	1	0.311697	0.396941	0.7852	0.4324
EXERT1	1	0.100708	0.704783	0.1429	0.8864
HRSFEET1	1	-0.592439	0.416059	-1.4239	0.1546
HRSWORK1	1	0.015232	0.031714	0.4803	0.6310
MONSMOKE	1	-0.00335677	0.024482	-0.1371	0.8910
USUAL1	1	-1.361678	0.339612	-4.0095	0.0001
KITCHEN	1	0.127804	1.130556	0.1130	0.9100

Table V-B-2 (continued)

Total iron (mg) intake at followup interview, controlled for
initial nutrient intake and duration of gestation at both
interviews

		SSE	617044.5	F RATIO	19.22
		DPE	3467	PROB>F	0.0001
		MSE	177.976501	R-SQUARE	0.0270
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	15.625166	3.301772	4.7324	0.0001
NUT106	1	0.195602	0.023601	8.2877	0.0001
WICCAT1	1	2.966887	0.636268	4.6630	0.0001
WICCAT2	1	4.391400	1.150849	3.8158	0.0001
GESTT1	1	-0.00380231	0.00575624	-0.6606	0.5089
GESTT2	1	-0.015876	0.014060	-1.1292	0.2589

Total iron (mg) intake at followup interview, controlled for
initial intake, duration of gestation at both interviews and
maternal characteristics at registration into study

		SSE	600970.5	F RATIO	4.62
		DPE	3431	PROB>F	0.0001
		MSE	175.158992	R-SQUARE	0.0523
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	5.983560	7.634970	0.7837	0.4333
NUT106	1	0.187337	0.023628	7.9286	0.0001
WICCAT1	1	3.160907	0.655895	4.8192	0.0001
WICCAT2	1	4.474126	1.156085	3.8701	0.0001
GESTT1	1	-0.00540662	0.005811514	-0.9303	0.3523
GESTT2	1	-0.011665	0.014045	-0.8305	0.4063
CATETH1	1	0.011319	0.732519	0.0155	0.9877
CATETH2	1	-0.061998	0.604451	-0.1026	0.9183
CATETH3	1	-0.695797	1.432585	-0.4857	0.6272
INCOME	1	0.001964187	0.006289629	0.3123	0.7548
CATINC4	1	-0.536778	0.655803	-0.8185	0.4131
BHSIZE	1	-0.258450	0.133217	-1.9401	0.0525
BOMAGE	1	-0.000133104	0.066546	-0.0020	0.9984
PARITY	1	-0.459075	0.280438	-1.6370	0.1017
BOMHT	1	0.052599	0.034522	1.5236	0.1277
BOMED	1	-0.090704	0.136136	-0.6663	0.5053
PATED	1	-0.107255	0.125775	-0.8528	0.3939
CATPED3	1	-0.060175	0.915765	-0.0657	0.9476
CATMOCC1	1	3.030196	1.797769	1.6855	0.0920
CATMOCC2	1	-0.775338	0.592864	-1.3078	0.1910
CATMOCC3	1	1.828710	1.315686	1.3900	0.1646
CATMOCC4	1	0.395503	0.625359	0.6324	0.5271
CATPOCC1	1	1.734670	1.107624	1.5661	0.1174
CATPOCC2	1	0.372813	0.604692	0.6165	0.5376
CATPOCC3	1	1.644456	1.156398	1.4221	0.1551
CATPOCC4	1	0.708863	0.741054	0.9566	0.3389
CATHAB1	1	-0.950883	0.781272	-1.2171	0.2237
LIVWPAT	1	0.618320	0.779477	0.7932	0.4277
CATBHP1	1	0.619882	1.866052	0.3322	0.7398
CATBHP2	1	0.725480	0.595426	1.2184	0.2231
CATPEHP1	1	-0.584822	0.519770	-1.1252	0.2606
CATPEHP2	1	-0.575552	0.790497	-0.7281	0.4666
APDC	1	1.478032	0.695907	2.1239	0.0338
CATMDC1	1	-0.625691	0.594749	-1.0520	0.2929
CATPDST	1	-0.985839	0.549364	-1.7945	0.0728
EXERT1	1	0.401460	0.975480	0.4116	0.6807
BRSPEET1	1	0.279528	0.576006	0.4853	0.6275
BRSWORK1	1	-0.022726	0.043885	-0.5179	0.6046
MONSMOKE	1	-0.00606814	0.033883	-0.1791	0.8579
USUAL1	1	1.058458	0.476258	2.2224	0.0263
KITCHEN	1	1.975835	1.564583	1.2629	0.2067
USUAL2	1	-3.068989	0.496976	-6.1753	0.0001

Table V-B-2 (continued)

Total iron (mg) intake of followup interview, controlled for initial intake, duration of gestation at both interviews, maternal characteristics at registration and changes during pregnancy after enrollment (possible mediating factors)

		SSE	597916.2	F RATIO	3.91
		DPE	3419	PROB>F	0.0001
		MSE	174.880427	R-SQUARE	0.0571
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	4.189496	8.327358	0.5031	0.6149
MMT106	1	0.185568	0.023630	7.8531	0.0001
WICCAT1	1	2.827739	0.758260	3.7292	0.0002
WICCAT2	1	3.931394	1.188828	3.3069	0.0010
GESTT1	1	-0.00668304	0.005991397	-1.1154	0.2647
GESTT2	1	-0.00998222	0.014506	-0.6881	0.4914
CATETH1	1	-0.055700	0.736924	-0.0756	0.9398
CATETH2	1	0.010350	0.614554	0.0168	0.9866
CATETH3	1	-0.583159	1.433884	-0.4067	0.6843
INCOME	1	0.001373684	0.006309326	0.2177	0.8277
CATINC4	1	0.625691	0.656867	0.9525	0.3409
HRSIZE	1	-0.242932	0.133361	-1.8216	0.0686
MOHAGE	1	0.012066	0.066815	0.1806	0.8567
PARITY	1	-0.437414	0.281504	-1.5538	0.1203
MOHBT	1	0.051676	0.034585	1.4942	0.1352
MOHED	1	-0.082179	0.136507	-0.6020	0.5472
FATED	1	-0.112282	0.126047	-0.8908	0.3731
CATPED3	1	-0.028959	0.916863	-0.0316	0.9748
CATHOCC1	1	3.252737	1.800920	1.8062	0.0710
CATHOCC2	1	0.789335	0.594311	1.3282	0.1842
CATHOCC3	1	1.624372	1.318677	1.2318	0.2181
CATHOCC4	1	0.560263	0.627355	0.8931	0.3719
CATPOCC1	1	1.639858	1.109111	1.4785	0.1394
CATPOCC2	1	0.355270	0.604925	0.5873	0.5570
CATPOCC3	1	1.737478	1.157685	1.5008	0.1335
CATPOCC4	1	-0.788142	0.741544	-1.0628	0.2879
CATHAB1	1	-0.875993	0.781971	-1.1202	0.2627
LIVPAT	1	0.651250	0.780705	0.8342	0.4042
CATHEMP1	1	0.763201	1.876011	0.4068	0.6842
CATHEMP2	1	0.804513	0.596931	1.3477	0.1778
CATPEMP1	1	-0.529318	0.520593	-1.0168	0.3093
CATPEMP2	1	-0.555128	0.790955	-0.7018	0.4828
AFDC	1	1.388128	0.698014	1.9887	0.0468
CATHEDC1	1	-0.560328	0.597580	-0.9377	0.3485
CATPDST	1	-0.990021	0.550111	-1.7997	0.0720
EXERT1	1	0.380757	0.994785	0.3828	0.7019
HRSPEET1	1	0.195951	0.595772	0.3289	0.7422
HRSWORK1	1	-0.00752398	0.045208	-0.1664	0.8678
MOESMOKE	1	0.004823327	0.055693	0.0866	0.9310
USUAL1	1	1.038323	0.476341	2.1798	0.0293
KITCHEN	1	1.773754	1.569284	1.1303	0.2584
USUAL2	1	-3.061208	0.498227	-6.1442	0.0001
EATEDCNG	1	0.962822	0.536163	1.7958	0.0726
EATEDCN2	1	0.671679	0.915095	0.7340	0.4630
EATWH01	1	1.076820	0.723181	1.4890	0.1366
EATWH02	1	1.604817	0.648799	2.4735	0.0134
EATWH03	1	0.451063	0.730909	0.6171	0.5372
EATEDNUM	1	-0.016414	0.117029	-0.1403	0.8885
T2PICA	1	0.539538	1.511934	0.3569	0.7212
HRSWORK2	1	-0.036877	0.044945	-0.8205	0.4120
HRSPEET2	1	0.339397	0.711804	0.4768	0.6335
EXERT2	1	-0.232109	1.602308	-0.1449	0.8848
T2SHOKE	1	-0.00404311	0.052303	-0.0773	0.9384
NOVISIT2	1	-0.045235	0.077022	-0.5873	0.5570

Table V-B-2 (continued)

Iron (mg) intake from potential WIC foods at initial interview,
controlled for duration of gestation at registration

		SSE	140966.5	F RATIO	3.02
		DPE	3469	PROB>F	0.0284
		MSE	40.636065	R-SQUARE	0.0026
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	2.136525	0.415908	5.1370	0.0001
WICCAT1	1	0.876982	0.303843	2.8863	0.0039
WICCAT2	1	0.302974	0.549819	0.5510	0.5816
GESTT1	1	-0.000913611	0.002669612	-0.3422	0.7322

Iron (mg) intake from potential WIC foods at initial interview,
controlled for gestation at registration and maternal characteristics
at registration into study

		SSE	137290.3	F RATIO	2.66
		DPE	3434	PROB>F	0.0001
		MSE	39.979708	R-SQUARE	0.0266
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	4.022957	3.277706	1.2274	0.2198
WICCAT1	1	0.674990	0.313169	2.1554	0.0312
WICCAT2	1	0.043444	0.552234	0.0787	0.9373
GESTT1	1	-0.00189328	0.002692092	-0.7033	0.4819
CATETH1	1	1.553098	0.348723	4.4537	0.0001
CATETH2	1	-0.019403	0.288195	-0.0673	0.9463
CATETH3	1	-0.154549	0.684281	-0.2259	0.8213
INCOME	1	-0.00110405	0.003003893	-0.3675	0.7132
CATINC4	1	-0.061835	0.313100	-0.1975	0.8435
HHSIZE	1	0.011209	0.063626	0.1762	0.8602
BOHAGE	1	-0.019437	0.031767	-0.6119	0.5407
PARITY	1	0.173900	0.133930	1.2984	0.1942
BOHMT	1	-0.00420036	0.016481	-0.2549	0.7988
BOHED	1	0.014476	0.065032	0.2226	0.8239
PATED	1	0.040770	0.060074	0.6787	0.4974
CATPED3	1	-0.284629	0.437110	-0.6512	0.5150
CATHOCC1	1	-0.510290	0.858215	-0.5946	0.5522
CATHOCC2	1	-0.180113	0.283081	-0.6363	0.5246
CATHOCC3	1	0.222073	0.628201	0.3535	0.7237
CATHOCC4	1	0.179058	0.298551	0.5998	0.5487
CATPOCC1	1	1.145174	0.528447	2.1671	0.0303
CATPOCC2	1	-0.519989	0.288868	-1.8001	0.0719
CATPOCC3	1	-0.767964	0.552252	-1.3906	0.1644
CATPOCC4	1	-0.255924	0.353975	-0.7230	0.4697
CATHAR1	1	0.647561	0.373182	1.7352	0.0828
LIVHPAT	1	-0.381924	0.372351	-1.0257	0.3051
CATHEMP1	1	-0.270673	0.891258	-0.3037	0.7614
CATHEMP2	1	-0.143882	0.284343	-0.5060	0.6129
CATPEMP1	1	0.237947	0.248067	0.9592	0.3375
CATPEMP2	1	-0.495435	0.377102	-1.3138	0.1890
LPDC	1	1.216573	0.332317	3.6609	0.0003
CATHDC1	1	0.058442	0.283943	0.2058	0.8369
CATPDST	1	-0.138133	0.262400	-0.5264	0.5986
EXERT1	1	-0.155116	0.465901	-0.3329	0.7392
HRSFEET1	1	-0.045632	0.275039	-0.1659	0.8682
HRSWORK1	1	-0.00642266	0.020964	-0.3064	0.7593
MOHSBOKE	1	-0.024296	0.016184	-1.5012	0.1334
BSUAL1	1	-0.360603	0.224503	-1.6062	0.1083
KITCHEN	1	-0.665924	0.747361	-0.8910	0.3730

Table V-B-2 (continued)

Iron (mg) intake from potential WIC foods at followup interview, controlled for initial nutrient intake and duration of gestation at both interviews

		SSE	442307.2	F RATIO	12.85
		DPE	3467	PROB>F	0.0001
		MSE	127.576349	R-SQUARE	0.0182
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	2.772227	2.781715	0.9966	0.3190
HNUT106	1	0.092209	0.030083	3.0651	0.0022
WICCAT1	1	3.651876	0.539343	6.7710	0.0001
WICCAT2	1	4.873265	0.974404	5.0013	0.0001
GESTT1	1	-0.004887582	0.004872297	-1.0031	0.3159
GESTT2	1	-0.00649503	0.011903	-0.5456	0.5853

Iron (mg) intake from potential WIC foods at followup interview, controlled for initial intake, duration of gestation at both interviews and maternal characteristics at registration into study

		SSE	434860.8	F RATIO	3.01
		DPE	3431	PROB>F	0.0001
		MSE	126.744613	R-SQUARE	0.0347
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	1.104326	6.488275	0.1702	0.8649
HNUT106	1	0.086438	0.030408	2.8426	0.0045
WICCAT1	1	3.846504	0.558324	6.8894	0.0001
WICCAT2	1	5.049700	0.983418	5.1348	0.0001
GESTT1	1	-0.004878483	0.004943345	-0.9869	0.3238
GESTT2	1	-0.00622404	0.011948	-0.5209	0.6024
CATETH1	1	-0.520299	0.624295	-0.8334	0.4047
CATETH2	1	-1.096585	0.513932	-2.1337	0.0329
CATETH3	1	-0.327387	1.218533	-0.2687	0.7882
INCOME	1	0.004269912	0.005348939	0.7983	0.4248
CATINCA	1	0.010845	0.557793	0.0194	0.9845
HHSIZE	1	-0.163178	0.113288	-1.4404	0.1499
MONAGE	1	0.006349207	0.056581	0.1122	0.9107
PARITY	1	-0.323204	0.238617	-1.3545	0.1757
MONHT	1	0.008178524	0.029364	0.2785	0.7806
MONED	1	-0.068851	0.115805	-0.5945	0.5522
PIPED	1	-0.061990	0.106989	-0.5794	0.5624
CATPED3	1	0.136782	0.779026	0.1756	0.8606
CATHOCC1	1	0.298119	1.528924	0.1950	0.8454
CATHOCC2	1	0.766169	0.504263	1.5194	0.1288
CATHOCC3	1	1.156404	1.118623	1.0338	0.3013
CATHOCC4	1	-0.069852	0.531970	-0.1313	0.8955
CATPOCC1	1	2.360708	0.941902	2.5063	0.0122
CATPOCC2	1	0.180659	0.514630	0.3510	0.7256
CATPOCC3	1	0.520353	0.983954	0.5288	0.5970
CATPOCC4	1	1.135228	0.630344	1.8010	0.0718
CATHA1	1	-0.879036	0.664854	-1.3221	0.1862
LIVWAT	1	0.755468	0.663104	1.1393	0.2547
CATHEMP1	1	0.698292	1.587081	0.4400	0.6600
CATHEMP2	1	0.197432	0.506507	0.3898	0.6967
CATPEMP1	1	-0.801021	0.442165	-1.8116	0.0701
CATPEMP2	1	-0.851128	0.672550	-1.2655	0.2058
APDC	1	1.292734	0.592863	2.1805	0.0293
CATHDC1	1	-0.813610	0.505867	-1.6083	0.1079
CATPDST	1	-0.493458	0.467286	-1.0560	0.2910
EXERT1	1	0.102954	0.829805	0.1241	0.9013
HRSPEET1	1	0.374822	0.489843	0.7652	0.4442
HRSWORK1	1	-0.021758	0.037329	-0.5829	0.5600
MOESMOKE	1	-0.037983	0.028832	-1.3174	0.1878
USUAL1	1	0.572115	0.404437	1.4146	0.1573
KITCHEN	1	1.166708	1.331073	0.8765	0.3806
USUAL2	1	-1.391006	0.422800	-3.2900	0.0010

Table V-B-2 (continued)

Iron (mg) intake from potential WIC foods at followup interview,
controlled for initial intake, duration of gestation at both interviews,
maternal characteristics at registration and changes during pregnancy
after enrollment (possible mediating factors)

		SSE	432301.4	F RATIO	2.72
		DPE	3419	PROB>F	0.0001
		MSE	126.440878	R-SQUARE	0.0404
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	-1.412863	7.074535	-0.1997	0.8417
WHT106	1	0.083251	0.030413	2.7373	0.0062
WICCAT1	1	3.799304	0.645040	5.8900	0.0001
WICCAT2	1	4.685478	1.010838	4.6352	0.0001
GPSTT1	1	0.003609358	0.005094342	0.7085	0.4787
GESTT2	1	-0.00430464	0.012335	-0.3490	0.7271
CATETH1	1	-0.525588	0.627649	-0.8374	0.4024
CATETH2	1	-0.943557	0.522291	-1.8066	0.0709
CATETH3	1	-0.183731	1.219109	-0.1507	0.8802
INCOME	1	0.003779677	0.00536369	0.7047	0.4811
CATINC4	1	0.068278	0.558479	0.1223	0.9027
HRSIZE	1	-0.151525	0.113369	-1.3366	0.1815
MONAGE	1	0.014616	0.056785	0.2574	0.7969
PARITY	1	-0.318781	0.239433	-1.3314	0.1831
MONHT	1	0.007581971	0.029405	0.2578	0.7965
MONED	1	-0.062401	0.116072	-0.5376	0.5909
PATED	1	-0.071848	0.107176	-0.6704	0.5027
CATPED3	1	0.142375	0.779634	0.1826	0.8551
CATHOCC1	1	0.396792	1.531002	0.2592	0.7955
CATHOCC2	1	0.778463	0.505291	1.5406	0.1235
CATHOCC3	1	0.962603	1.120721	0.8589	0.3904
CATHOCC4	1	0.092463	0.533453	0.1733	0.8624
CATPOCC1	1	2.385783	0.942760	2.5306	0.0114
CATPOCC2	1	0.188731	0.514608	0.3667	0.7138
CATPOCC3	1	0.662614	0.984620	0.6730	0.5010
CATPOCC4	1	1.227377	0.630485	1.9467	0.0517
CATHAR1	1	-0.816352	0.665187	-1.2273	0.2198
LIVWPAT	1	0.771031	0.663875	1.1614	0.2456
CATHEMP1	1	0.709934	1.594902	0.4451	0.6563
CATHEMP2	1	0.231072	0.507578	0.4552	0.6490
CATPEMP1	1	-0.764121	0.442684	-1.7261	0.0844
CATPEMP2	1	-0.869746	0.672696	-1.2929	0.1961
APDC	1	1.250567	0.594436	2.1038	0.0355
CATNDIC1	1	-0.753802	0.508069	-1.4837	0.1380
CATPDST	1	-0.519371	0.467720	-1.1104	0.2669
EXERT1	1	0.121198	0.845858	0.1433	0.8861
HRSPEET1	1	0.233134	0.506421	0.4604	0.6453
HRSBORK1	1	-0.00990098	0.038439	-0.2576	0.7968
MONSHOKE	1	-0.032756	0.047355	-0.6917	0.4892
USUAL1	1	0.568172	0.404337	1.4052	0.1601
KITCHEN	1	1.071576	1.334545	0.8030	0.4221
USUAL2	1	-1.359658	0.423661	-3.2093	0.0013
EATEDCNG	1	0.960069	0.456038	2.1052	0.0353
EATEDCN2	1	1.152803	0.778113	1.4815	0.1386
EATWH01	1	0.981992	0.614958	1.5968	0.1104
EATWH02	1	1.660572	0.551677	3.0100	0.0026
EATWH03	1	0.100558	0.621517	0.1618	0.8715
EATEDNUM	1	-0.075770	0.099510	-0.7614	0.4465
T2PICA	1	-1.556812	1.285688	-1.2109	0.2260
HRSWORK2	1	-0.018450	0.038218	-0.4827	0.6293
HRSPEET2	1	0.434710	0.605188	0.7183	0.4726
EXERT2	1	-0.137441	1.362503	-0.1009	0.9197
T2SHOKE	1	0.002017739	0.044481	0.0454	0.9638
NOVISIT2	1	-0.039581	0.065491	-0.6044	0.5456

Table V-B-2 (continued)

Total iron (mg) intake controlled for caloric intake at initial interview, controlled for duration of gestation at registration

		SSE	190658.1	F RATIO	586.77
		DPE	3468	PROB>F	0.0001
		MSE	54.976384	R-SQUARE	0.4036
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	1.469514	0.545930	2.6918	0.0071
WICCAT1	1	0.189758	0.353427	0.5369	0.5914
WICCAT2	1	-0.155014	0.639544	-0.2424	0.8085
GESTT1	1	-0.0037518	0.003110983	-1.2060	0.2279
NUT101	1	0.006670709	0.0001377856	48.4137	0.0001

Total iron (mg) intake controlled for caloric intake at initial interview, controlled for gestation at registration and maternal characteristics at registration into study

		SSE	187210.1	F RATIO	62.29
		DPE	3433	PROB>F	0.0001
		MSE	54.532522	R-SQUARE	0.4144
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	5.487417	3.833480	1.4314	0.1524
WICCAT1	1	-0.014829	0.365758	-0.0405	0.9677
WICCAT2	1	-0.439719	0.644994	-0.6817	0.4954
GESTT1	1	-0.00423577	0.003148219	-1.3454	0.1786
CATETH1	1	0.992062	0.407323	2.4356	0.0149
CATETH2	1	0.169651	0.336869	0.5036	0.6146
CATETH3	1	-0.512753	0.799632	-0.6412	0.5214
INCOME	1	-0.00319652	0.003513647	-0.9097	0.3630
CATINC4	1	-0.324073	0.365679	-0.8862	0.3756
HESIZE	1	-0.025329	0.074345	-0.3407	0.7334
HOMAGE	1	0.033189	0.037188	0.8925	0.3722
PARITY	1	0.126364	0.156439	0.8078	0.4193
BOMHT	1	-0.016974	0.019261	-0.8813	0.3782
HOMED	1	-0.028911	0.075955	-0.3806	0.7035
PATED	1	-0.023158	0.070165	-0.3301	0.7414
CATPED3	1	-0.415085	0.510556	-0.8130	0.4163
CATHOCC1	1	-1.056492	1.002414	-1.0539	0.2920
CATHOCC2	1	-0.187002	0.330856	-0.5652	0.5720
CATHOCC3	1	0.544431	0.734124	0.7416	0.4584
CATHOCC4	1	0.106351	0.348684	0.3050	0.7604
CATFOCC1	1	1.035246	0.617562	1.6763	0.0938
CATFOCC2	1	-0.211223	0.337405	-0.6260	0.5313
CATFOCC3	1	-0.437095	0.645098	-0.6776	0.4981
CATFOCC4	1	0.660219	0.413428	1.5969	0.1104
CATHAB1	1	0.775278	0.436004	1.7781	0.0755
LIVWPAT	1	-0.615375	0.434889	-1.4150	0.1572
CATHEHP1	1	-0.00023262	1.041390	-0.0002	0.9998
CATHEHP2	1	0.072137	0.332113	0.2172	0.8281
CATPEHP1	1	0.119096	0.289733	0.4111	0.6811
CATPEHP2	1	-0.623844	0.440433	-1.4164	0.1567
APDC	1	0.677180	0.388134	1.7447	0.0811
CATHDC1	1	0.424201	0.331620	1.2792	0.2009
CATPDST	1	-0.253019	0.306682	-0.8250	0.4094
EXERT1	1	-0.243971	0.544176	-0.4483	0.6539
HRSPEET1	1	-0.242735	0.321301	-0.7555	0.4500
HRSWORK1	1	-0.030992	0.024503	-1.2648	0.2060
MOBSMOKE	1	-0.061661	0.018940	-3.2556	0.0011
USUAL1	1	-0.185513	0.263329	-0.7045	0.4812
KITCHEN	1	0.596592	0.872902	0.6835	0.4944
NUT101	1	0.006746596	0.0001398238	48.2507	0.0001

Table V-B-2 (continued)

Total iron (mg) intake controlled for caloric intake at followup interview, controlled for initial nutrient intake and duration of gestation at both interviews

SSE	459555.2	P RATIO	219.46
DPE	3466	PROB>P	0.0001
MSE	132.589511	R-SQUARE	0.2753

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	3.572990	2.871214	1.2444	0.2134
NUT106	1	0.061003	0.020742	2.9411	0.0033
WICCAT1	1	2.368989	0.549452	4.3115	0.0001
WICCAT2	1	3.181264	0.993946	3.2006	0.0014
GESTT1	1	0.002926561	0.004972185	0.5886	0.5562
GESTT2	1	-0.025613	0.012138	-2.1100	0.0349
NUT201	1	0.007995725	0.0002319994	34.4644	0.0001

Total iron (mg) intake controlled for caloric intake at followup interview, controlled for initial intake, duration of gestation at both interviews and maternal characteristics at registration into study

SSE	452770.3	P RATIO	32.72
DPE	3430	PROB>P	0.0001
MSE	132.003010	R-SQUARE	0.2860

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	-2.561013	6.632912	-0.3861	0.6994
NUT106	1	0.059422	0.020864	2.8481	0.0044
WICCAT1	1	2.303099	0.569966	4.0408	0.0001
WICCAT2	1	3.234204	1.004293	3.2204	0.0013
GESTT1	1	0.002129301	0.005050055	0.4216	0.6733
GESTT2	1	-0.023862	0.012198	-1.9562	0.0505
CATETH1	1	-0.483291	0.636080	-0.7598	0.4474
CATETH2	1	-0.392619	0.524824	-0.7481	0.4545
CATETH3	1	-0.013587	1.243811	-0.0109	0.9913
INCOME	1	-0.0019332	0.00546134	-0.3540	0.7234
CATINC4	1	0.333115	0.569343	0.5851	0.5585
HBSIZE	1	-0.223412	0.115652	-1.9318	0.0535
MOHAGE	1	0.064678	0.057802	1.1190	0.2632
PARITY	1	-0.239749	0.243539	-0.9844	0.3250
MOHHT	1	0.033329	0.029975	1.1119	0.2663
MOHED	1	-0.106630	0.118183	-0.9023	0.3670
PATED	1	-0.142642	0.109192	-1.3063	0.1915
CATPED3	1	0.148050	0.795011	0.1862	0.8523
CATHOCC1	1	0.846847	1.562024	0.5421	0.5878
CATHOCC2	1	0.406018	0.514790	0.7887	0.4303
CATHOCC3	1	0.240765	1.143145	0.2106	0.8332
CATHOCC4	1	0.225781	0.542905	0.4159	0.6775
CATPOCC1	1	1.811949	0.961544	1.8844	0.0596
CATPOCC2	1	0.186006	0.524970	0.3543	0.7231
CATPOCC3	1	1.348242	1.003922	1.3430	0.1794
CATPOCC4	1	1.276024	0.643540	1.9828	0.0475
CATHAR1	1	-0.544383	0.678340	-0.8025	0.4223
LIVHPAT	1	0.318463	0.676732	0.4706	0.6380
CATHEMP1	1	0.919090	1.619966	0.5674	0.5705
CATHEMP2	1	0.668141	0.516899	1.2926	0.1962
CATPEMP1	1	-0.660298	0.451224	-1.4633	0.1435
CATPEMP2	1	-0.563881	0.686240	-0.8217	0.4113
AFDC	1	1.412800	0.604128	2.3386	0.0194
CATHDC1	1	-0.855617	0.516354	-1.6570	0.0976
CATPDST	1	-0.873082	0.476921	-1.8307	0.0672
EXERT1	1	-0.063648	0.846939	-0.0752	0.9401
HRSPEET1	1	0.528665	0.500093	1.0571	0.2905
HRSWORK1	1	-0.024306	0.038097	-0.6380	0.5235
MONSMOKE	1	-0.033631	0.029426	-1.1429	0.2532
USUAL1	1	0.297830	0.414068	0.7193	0.4720
KITCHEN	1	1.935507	1.358234	1.4250	0.1542
USUAL2	1	-0.921424	0.436165	-2.1126	0.0347
NUT201	1	0.007904645	0.0002359119	33.5068	0.0001

Table V-B-2 (continued)

Total iron (mg) intake controlled for caloric intake at followup interview, controlled for initial intake, duration of gestation at both interviews, maternal characteristics at registration and changes during pregnancy after enrollment (possible mediating factors)

		SSE	451559.3	F RATIO	25.59
		DPE	3418	PROB>F	0.0001
		MSE	132.112131	R-SQUARE	0.2879
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	-4.437065	7.242463	-0.6126	0.5402
NUT106	1	0.059362	0.020885	2.8423	0.0045
WICCAT1	1	2.271281	0.659263	3.4452	0.0006
WICCAT2	1	2.985524	1.033675	2.8883	0.0039
GESTT1	1	0.0001884765	0.005211585	0.0362	0.9712
GESTT2	1	-0.020641	0.012612	-1.6366	0.1018
CATETH1	1	-0.517975	0.640657	-0.8085	0.4189
CATETH2	1	-0.332456	0.534246	-0.6223	0.5338
CATETH3	1	0.004694369	1.246403	0.0038	0.9970
INCOME	1	-0.00189958	0.005484708	-0.3463	0.7291
CATINC4	1	0.354884	0.570982	0.6215	0.5343
HHSIZE	1	-0.220764	0.115914	-1.9045	0.0569
HOMAGE	1	0.071569	0.058101	1.2318	0.2181
PARITY	1	-0.243819	0.244742	-0.9962	0.3192
HOMHT	1	0.033175	0.030065	1.1035	0.2699
HOMED	1	-0.099730	0.118648	-0.8406	0.4007
FATED	1	-0.148602	0.109561	-1.3563	0.1751
CATPED3	1	0.162351	0.796923	0.2037	0.8386
CATHOCC1	1	0.907935	1.566876	0.5795	0.5623
CATHOCC2	1	0.418685	0.516672	0.8103	0.4178
CATHOCC3	1	0.135890	1.147016	0.1185	0.9057
CATHOCC4	1	0.302103	0.545328	0.5540	0.5796
CATPOCC1	1	1.790045	0.964007	1.8569	0.0634
CATPOCC2	1	0.182963	0.525803	0.3480	0.7279
CATPOCC3	1	1.419607	1.006261	1.4108	0.1584
CATPOCC4	1	1.321083	0.644721	2.0491	0.0405
CATHAB1	1	-0.501290	0.679753	-0.7375	0.4609
LIVWPAT	1	0.334953	0.678626	0.4936	0.6216
CATHEMP1	1	1.027571	1.630577	0.6302	0.5286
CATHEMP2	1	0.724946	0.518835	1.3973	0.1624
CATPEMP1	1	-0.643522	0.452493	-1.4222	0.1551
CATPEMP2	1	-0.581723	0.687469	-0.8462	0.3975
AFDC	1	1.395625	0.606687	2.3004	0.0215
CATHDC1	1	-0.822380	0.519453	-1.5832	0.1135
CATPDST	1	-0.886247	0.478145	-1.8535	0.0639
EXERT1	1	-0.081876	0.864741	-0.0947	0.9246
HRSPEET1	1	0.478174	0.517892	0.9233	0.3559
HRSWORK1	1	-0.012843	0.039293	-0.3268	0.7438
HOMSHOKE	1	-0.011776	0.048409	-0.2433	0.8078
USUAL1	1	0.303655	0.414605	0.7324	0.4640
KITCHEN	1	1.820500	1.363963	1.3347	0.1821
USUAL2	1	-0.898204	0.437889	-2.0512	0.0403
EATEDCN6	1	0.650734	0.466107	1.3961	0.1628
EATEDCN2	1	1.035152	0.795441	1.3014	0.1932
EATWH01	1	0.816092	0.628610	1.2982	0.1943
EATWH02	1	1.014387	0.564190	1.7980	0.0723
EATWH03	1	0.475234	0.635279	0.7481	0.4545
EATEDNUM	1	-0.072774	0.101731	-0.7154	0.4744

T2PICA	1	-0.133829	1.314271	-0.1018	0.9189
HRSWORK2	1	-0.027828	0.039066	-0.7124	0.4763
HRSPEET2	1	0.178813	0.618692	0.2890	0.7726
EXERT2	1	0.038488	1.392689	0.0276	0.9780
T2SHOKE	1	-0.020762	0.045463	-0.4567	0.6479
NOVISIT2	1	-0.066170	0.066947	-0.9884	0.3230
NUT201	1	0.007882045	0.000236812	33.2840	0.0001

^aSee Table V-B-1 for specification of covariates.

^bFurther adjusted for changes potentially initiated by WIC program, over and above WIC food benefits (change in nutrition education, smoking, and frequency and exertion in work).

Table V-B-3

Mean Daily Dietary Intake by WIC Status^a

Nutrient	Total intake			Total intake, controlled for caloric intake			Intake from WIC foods		
	WIC	WIC/ control	Control	WIC	WIC/ control	Control	WIC	WIC/ control	Control
Calories (kcal)									
Initial									
Unadjusted ^b	-23.45	42.32	2008.88				41.76*	-15.52	385.97
Adjusted ^c	-14.44	49.26	2001.46				46.70**	-13.06	381.95
Followup									
Unadjusted ^b	81.84*	141.98*	1928.26				112.98***	148.91***	364.91
Adjusted ^c	110.75**	142.07*	1905.34				128.32***	151.90***	352.55
Adjusted, w/ mediation ^d	78.70	110.04	1932.54				104.11***	129.22***	372.93
Protein (g)									
Initial									
Unadjusted	-0.95	-1.81	80.64	-0.05	-3.42	80.05	1.94*	-1.66	20.86
Adjusted	-1.14	-1.61	80.79	-0.60	-3.49	80.48	2.26*	-1.31	20.59
Followup									
Unadjusted	3.50	5.79	76.93	0.34	-0.61	79.80	4.57***	6.04***	19.71
Adjusted	5.22**	6.48	75.54	0.82	0.10	79.38	5.48***	6.26***	18.97
Adjusted, w/ mediation	3.09	4.90	77.31	0.07	-0.14	79.99	4.12***	5.05***	20.12
Fat (g)									
Initial									
Unadjusted	-1.89	-2.60	86.13	-0.77	-4.63*	85.38	1.44	-1.57	19.85
Adjusted	-1.20	-1.44	85.53	-0.51	-3.79*	85.14	1.86*	-1.26	19.51
Followup									
Unadjusted	3.06	3.75	79.85	-0.84	-3.90*	83.37	3.63***	5.35***	18.51
Adjusted	4.68*	4.90	78.51	-0.57	-2.64	83.09	4.38***	5.54***	17.91
Adjusted, w/ mediation	2.53	3.19	80.31	-1.07	-2.74	83.49	3.05**	4.45**	19.02
Carbohydrate (g)									
Initial									
Unadjusted	-0.48	18.07	231.98	2.02	13.56**	230.31	5.55**	1.52	31.69
Adjusted	0.82	17.27	231.00	2.37	12.00*	230.12	5.57**	1.16	31.69
Followup									
Unadjusted	10.36*	20.67*	229.84	2.40	8.42	236.83	16.38***	19.76***	30.48
Adjusted	12.54*	17.81	228.26	1.53	5.12	237.68	17.68***	19.95***	29.44
Adjusted, w/ mediation	10.85	14.65	229.77	3.43	5.50	236.16	15.90***	17.89***	30.96

(continued)

Table V-B-3 (continued)

Nutrient	Total intake			Total intake, controlled for caloric intake			Intake from WIC foods		
	WIC	WIC/ control	Control	WIC	WIC/ control	Control	WIC	WIC/ control	Control
Calcium (mg)									
Initial									
Unadjusted	8.35	-40.46	947.69	19.28	-60.19	940.40	31.85	-75.13	559.41
Adjusted	43.35	3.06	917.68	50.09*	-19.97	913.83	59.34*	-43.48	535.93
Followup									
Unadjusted	95.73***	145.36**	901.74	65.57**	76.96	929.50	111.19***	133.08**	527.27
Adjusted	132.67***	172.51***	870.99	93.53***	108.46**	905.62	138.80***	151.08***	504.38
Adjusted, w/ mediation	98.55**	145.02**	899.52	75.00**	96.37*	920.95	102.94***	121.20**	534.40
Iron (mg)									
Initial									
Unadjusted	0.03	0.13	14.40	0.19	-0.16	14.30	0.88**	0.30	2.02
Adjusted	-0.11	-0.11	14.53	-0.01	-0.44	14.48	0.67*	0.04	2.20
Followup									
Unadjusted	2.97***	4.39***	14.22	2.37***	3.18**	14.76	3.65***	4.87***	2.10
Adjusted	3.16***	4.47***	14.06	2.30***	3.23**	14.81	3.85***	5.05***	1.93
Adjusted, w/ mediation	2.83***	3.93***	14.36	2.27***	2.99**	14.85	3.80***	4.69***	1.99
Magnesium (mg)									
Initial									
Unadjusted	1.05	1.09	258.95	3.91	-4.08	257.04	11.80**	0.27	74.60
Adjusted	6.61	5.46	254.30	8.38	-0.59	253.29	12.75***	1.34	73.79
Followup									
Unadjusted	18.86**	18.03	249.19	10.07*	-0.15	257.17	24.52***	30.09***	73.93
Adjusted	25.46***	20.78	243.80	13.85***	3.17	253.98	27.49***	30.46***	71.55
Adjusted, w/ mediation	18.66*	13.79	249.56	11.09*	0.12	256.32	22.15***	25.25***	76.05
Phosphorus (mg)									
Initial									
Unadjusted	-20.75	-45.91	1362.62	-5.41	-73.58*	1352.39	40.29	-54.10	531.09
Adjusted	2.79	-17.96	1342.49	12.25	-50.25	1337.10	54.27*	-36.97	519.11
Followup									
Unadjusted	100.09**	153.91**	1276.72	48.13**	47.15	1323.85	115.63***	148.33***	498.50
Adjusted	133.03***	168.79**	1249.75	66.00***	66.94*	1308.54	138.56***	158.38***	479.73
Adjusted, w/ mediation	90.92*	132.21*	1285.12	46.20*	52.65	1325.01	103.55***	127.87**	509.11

(continued)

Table V-B-3 (continued)

Nutrient	Total intake			Total intake, controlled for caloric intake			Intake from WIC foods		
	WIC	WIC/ control	Control	WIC	WIC/ control	Control	WIC	WIC/ control	Control
Vitamin A (IU)									
Initial									
Unadjusted	400.00	-186.65	5765.99	460.86	-296.46	5725.39	206.85*	12.57	1034.31
Adjusted	398.12	-258.51	5770.85	435.72	-386.82	5749.42	214.41*	14.29	1028.51
Followup									
Unadjusted	594.59	1032.55	6256.39	379.77	565.94	6452.82	985.29***	1325.03***	1022.26
Adjusted	777.73	1023.49	6109.25	470.51	554.18	6378.95	1069.53***	1407.01***	950.87
Adjusted, w/ mediation	796.08	973.31	6097.82	611.69	621.97	6263.62	1054.13***	1317.28***	967.70
Thiamin (mg)									
Initial									
Unadjusted	0.05	0.10	1.46	0.07	0.06	1.45	0.08**	0.03	0.28
Adjusted	0.04	0.08	1.47	0.06	0.04	1.46	0.07**	0.02	0.28
Followup									
Unadjusted	0.33***	0.47***	1.43	0.28***	0.36***	1.47	0.32***	0.43***	0.28
Adjusted	0.34***	0.46***	1.42	0.26***	0.36***	1.49	0.35***	0.45***	0.27
Adjusted, w/ mediation	0.32***	0.42***	1.44	0.27***	0.35***	1.47	0.34***	0.42***	0.27
Riboflavin (mg)									
Initial									
Unadjusted	0.04	-0.01	2.00	0.06	-0.05	1.99	0.10*	-0.04	0.76
Adjusted	0.08	0.04	1.97	0.09	-0.01	1.96	0.12**	-0.02	0.74
Followup									
Unadjusted	0.32***	0.51***	2.01	0.25***	0.34**	2.08	0.40***	0.53***	0.75
Adjusted	0.37***	0.55***	1.97	0.27***	0.39**	2.06	0.44***	0.57***	0.71
Adjusted, w/ mediation	0.30**	0.47**	2.02	0.24**	0.35**	2.08	0.41***	0.51***	0.74
Niacin (mg)									
Initial									
Unadjusted	-0.39	0.60	19.61	-0.17	0.22	19.47	0.87**	0.47	1.24
Adjusted	-0.46	0.49	19.68	-0.33	0.03	19.60	0.83**	0.40	1.27
Followup									
Unadjusted	2.92***	4.57***	18.95	2.10**	3.07**	19.68	3.55***	4.86***	1.52
Adjusted	3.23***	4.70***	18.69	2.09**	3.18**	19.68	3.76***	5.15***	1.34
Adjusted, w/ mediation	3.09***	4.28**	18.82	2.35**	3.13*	19.48	3.80***	4.85***	1.32

(continued)

Table V-B-3 (continued)

Nutrient	Total intake			Total intake, controlled for caloric intake			Intake from WIC foods		
	WIC	WIC/ control	Control	WIC	WIC/ control	Control	WIC	WIC/ control	Control
Vitamin B6 (mg)									
Initial									
Unadjusted	-0.04	0.07	1.64	-0.03	0.04	1.63	0.09**	0.03	0.29
Adjusted	-0.05	0.05	1.65	-0.04	0.01	1.64	0.08*	0.02	0.29
Followup									
Unadjusted	0.30***	0.35**	1.60	0.23***	0.22*	1.66	0.39***	0.51***	0.30
Adjusted	0.34***	0.35**	1.57	0.25***	0.22*	1.65	0.41***	0.53***	0.28
Adjusted, w/ mediation	0.32***	0.29*	1.59	0.25***	0.19	1.65	0.40***	0.49***	0.28
Vitamin B12 (mcg)									
Initial									
Unadjusted	-0.40	-1.52	5.84	-0.34	-1.63	5.80	0.28*	-0.05	1.89
Adjusted	-0.23	-1.40	5.70	-0.20	-1.53	5.68	0.32**	-0.02	1.86
Followup									
Unadjusted	1.04	2.18*	5.55	0.77	1.61	5.79	1.23***	1.67***	1.87
Adjusted	1.27*	2.29*	5.36	0.89	1.72	5.69	1.35***	1.79***	1.77
Adjusted, w/ mediation	1.05	1.89	5.55	0.82	1.46	5.76	1.30***	1.64***	1.82
Vitamin C (mg)									
Initial									
Unadjusted	5.43	12.39	120.05	6.65	10.19	119.23	9.42*	12.02	38.74
Adjusted	5.24	9.33	120.37	5.99	6.78	119.95	9.19*	9.99	39.04
Followup									
Unadjusted	30.59***	31.68**	113.05	26.99***	24.42*	116.30	34.05***	43.12***	35.50
Adjusted	32.43***	29.84**	111.68	27.22***	22.36*	116.22	35.72***	42.32***	34.21
Adjusted, w/ mediation	31.69***	28.27*	112.36	28.70***	22.91*	115.02	36.45***	42.07***	33.65
n	2762	181	530	2762	181	530	2762	181	530

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/Control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control group and differences from Control group means for WIC and WIC/Control groups.

^bInitial interviews controlled for duration of gestation at registration. Followup interviews controlled for initial nutrient intake and duration of gestation at both interviews.^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews adjusted for initial nutrient intake, duration of gestation at both interviews and maternal characteristics at registration into study. See Appendix V-A-3 for full covariate list.^dFurther adjusted for changes potentially initiated by WIC program, over and above WIC food benefits (change in nutrient education, smoking, and frequency and exertion in work). See Appendix V-A-3 for specification of these variables.

Table V-B-4

Percent of Women with Dietary Intake Below 100 Percent of
the Recommended Energy Intake and Below 77 Percent by WIC Status^a

Nutrient	WIC status		
	WIC	WIC/control	Control
Calories (kcal)			
Initial			
Unadjusted ^b	0.63	-4.01	73.50
Adjusted ^c	0.33	-4.22	73.75
Followup			
Unadjusted ^b	-5.46**	-8.51*	78.72
Adjusted ^c	-5.60**	-8.16*	78.81
Adjusted, w/ mediation ^d	-4.15	-6.85	77.59
Protein (g)			
Initial			
Unadjusted	0.22	1.19	30.26
Adjusted	-0.25	0.20	30.68
Followup			
Unadjusted	-1.06	-6.49	30.73
Adjusted	-2.38	-6.84	31.79
Adjusted, w/ mediation	0.52	-4.17	29.34
Calcium (mg)			
Initial			
Unadjusted	0.68	7.83	56.03
Adjusted	-1.87	4.45	58.23
Followup			
Unadjusted	-6.10**	-10.65*	58.19
Adjusted	-8.08***	-12.14**	59.84
Adjusted, w/ mediation	-5.76*	-10.22*	57.89
Magnesium (mg)			
Initial			
Unadjusted	-3.68	-5.53	83.00
Adjusted	-4.23*	-6.59	83.50
Followup			
Unadjusted	-5.80**	-5.75	83.26
Adjusted	-6.90***	-6.46*	84.17
Adjusted, w/ mediation	-5.61	-5.21	83.08

(continued)

Table V-B-4 (continued)

Nutrient	WIC status		
	WIC	WIC/control	Control
Phosphorus (mg)			
Initial			
Unadjusted	1.95	1.11	28.48
Adjusted	0.73	-0.92	29.56
Followup			
Unadjusted	-3.62	-11.48**	30.43
Adjusted	-5.86**	-11.73**	32.21
Adjusted, w/ mediation	-2.12	-8.31*	29.07
Vitamin A (IU)			
Initial			
Unadjusted	0.99	0.89	53.12
Adjusted	-0.51	-0.38	54.39
Followup			
Unadjusted	-0.85	-6.35	47.68
Adjusted	-3.87	-7.68	50.15
Adjusted, w/ mediation	-3.19	-7.52	49.60
Thiamin (mg)			
Initial			
Unadjusted	-0.41	0.71	45.47
Adjusted	-0.49	0.40	45.53
Followup			
Unadjusted	-6.45**	-11.13**	44.89
Adjusted	-6.80**	-10.97**	45.16
Adjusted, w/ mediation	-4.25	-9.31*	43.05
Riboflavin (mg)			
Initial			
Unadjusted	2.63	5.38	25.88
Adjusted	1.45	3.56	26.90
Followup			
Unadjusted	-2.79	-9.17*	25.84
Adjusted	-5.40**	-9.98**	27.96
Adjusted, w/ mediation	-1.29	-6.81	24.52

(continued)

Table V-B-4 (continued)

Nutrient	WIC status		
	WIC	WIC/control	Control
Niacin (mg)			
Initial			
Unadjusted	3.65	8.49*	27.78
Adjusted	3.71	7.72	27.77
Followup			
Unadjusted	0.78	1.50	27.46
Adjusted	0.28	0.88	27.88
Adjusted, w/ mediation	2.74	3.10	25.81
Vitamin B6 (mg)			
Initial			
Unadjusted	3.39	4.46	71.33
Adjusted	4.06	5.05	70.76
Followup			
Unadjusted	-3.20	-2.19	71.90
Adjusted	-3.87	-2.50	72.46
Adjusted, w/ mediation	-2.89	-0.91	71.59
Vitamin B12 (mcg)			
Initial			
Unadjusted	2.31	5.87	37.02
Adjusted	0.62	3.41	38.48
Followup			
Unadjusted	-3.64	-7.48	37.52
Adjusted	-6.44**	-9.92*	39.87
Adjusted, w/ mediation	-2.92	-6.70	36.90
Vitamin C (mg)			
Initial			
Unadjusted	-1.38	-1.47	40.68
Adjusted	-1.61	-0.70	40.82
Followup			
Unadjusted	-8.19***	-9.02*	40.84
Adjusted	-8.90***	-9.52*	41.44
Adjusted, w/ mediation	-9.20***	-9.13*	41.65
n	2762	181	530

See footnotes on following page.

(continued)

Table V-B-4 (continued)

Nutrient	WIC status		
	WIC	WIC/control	Control

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/Control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control group and differences from Control group means for WIC and WIC/Control groups.

^bInitial interviews controlled for duration of gestation at registration. Followup interviews controlled for initial nutrient intake and duration of gestation at both interviews.

^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews adjusted for initial nutrient intake, duration of gestation at both interviews and maternal characteristics at registration into study. See Appendix V-A-3 for full covariate list.

^dFurther adjusted for changes potentially initiated by WIC program, over and above WIC food benefits (change in nutrient education, smoking, and frequency and exertion in work). See Appenndix V-A-3 for specification of these variables.

Table V-B-5
Mean Daily Dietary Intake by VIC Food Groups^a and VIC Status^b

Nutrient	VIC Dairy Foods			VIC Juices			VIC Cereals			Other VIC Foods		
	VIC	VIC/Control	Control	VIC	VIC/Control	Control	VIC	VIC/Control	Control	VIC	VIC/Control	Control
Calories (kcal)												
Initial												
Unadjusted ^c	6.807	-44.057	267.989	7.890	11.870	34.909	5.384*	0.385	5.001	17.978*	11.210	85.149
Adjusted ^d	20.137	-27.945	256.530	7.682	9.926	35.184	4.457	-0.595	5.792	10.913	0.628	91.319
Followup												
Unadjusted ^c	55.407**	63.289**	243.489	25.191**	30.697**	30.333	25.767**	32.375**	5.912	17.778*	26.233	81.661
Adjusted ^d	69.725**	71.951**	231.655	26.274**	29.083**	29.539	26.824**	34.690**	4.952	18.620*	19.514	81.288
Adj. w/ mediation	48.240**	55.099*	249.594	26.884**	29.567**	29.039	26.385**	32.345**	5.420	17.196*	15.883	82.584
Protein (g)												
Initial												
Unadjusted	0.375	-2.848*	15.259	0.120	0.179	0.531	0.147*	0.029	0.126	1.087*	0.706	5.360
Adjusted	1.250	-1.766	14.506	0.116	0.149	0.536	0.127*	0.009	0.143	0.565	0.031	5.810
Followup												
Unadjusted	3.022**	3.227*	13.877	0.382**	0.466**	0.469	0.652**	0.898**	0.167	1.013*	1.591	5.078
Adjusted	3.937**	3.792**	13.121	0.398**	0.440**	0.458	0.701**	0.961**	0.125	1.053*	1.154	5.066
Adj. w/ mediation	2.767**	2.884*	14.097	0.407**	0.449**	0.450	0.656**	0.862**	0.166	0.912*	0.920	5.188
Fat (g)												
Initial												
Unadjusted	0.191	-2.591	15.241	0.018*	0.025	0.076	0.026*	0.007	0.022	0.947*	0.566	4.914
Adjusted	0.801	-1.859	14.716	0.018*	0.021	0.076	0.021	0.003	0.027	0.787*	0.183	5.062
Followup												
Unadjusted	3.320**	3.837**	13.544	0.057**	0.069**	0.066	0.146**	0.146**	0.026	0.824	1.424	4.719
Adjusted	4.142**	4.315**	12.865	0.059**	0.065**	0.065	0.138**	0.154**	0.032	0.926	1.133	4.648
Adj. w/ mediation	2.788**	3.265*	13.996	0.061**	0.066**	0.063	0.144**	0.147**	0.027	1.123	1.123	4.491
Carbohydrates (g)												
Initial												
Unadjusted	0.917	-2.370	18.037	1.876	2.827	8.305	1.199*	0.125	1.065	1.419	0.907	4.751
Adjusted	2.017*	-1.055	17.093	1.826	2.365	8.371	0.986	-0.079	1.246	0.571	-0.143	5.479
Followup												
Unadjusted	3.480**	4.068**	17.080	5.993**	7.302**	7.212	5.661**	7.079**	1.285	1.875*	1.938	4.569
Adjusted	4.315**	4.616**	16.389	6.251**	6.919**	7.022	5.887**	7.596**	1.079	1.737*	1.328	4.707
Adj. w/ mediation	3.082**	3.607*	17.420	6.394**	7.033**	6.905	5.793**	7.104**	1.179	1.149	0.701	5.205
Calcium (mg)												
Initial												
Unadjusted	15.582	-94.207*	530.094	1.582	2.316	6.904	0.906	0.727	1.330	4.690	3.165	33.484
Adjusted	46.512	-56.080	503.492	1.543	1.931	6.957	0.894	0.701	1.341	1.211	-2.053	36.519
Followup												
Unadjusted	104.402**	112.754*	485.726	4.995**	6.092**	6.060	6.896**	9.130**	1.790	4.919	9.462	30.998
Adjusted	134.810**	131.693**	440.578	5.200**	5.753**	5.911	7.004**	9.441**	1.688	4.646	5.488	31.409
Adj. w/ mediation	95.447**	100.717*	493.453	5.346**	5.871**	5.791	6.763**	8.468**	1.945	2.724	3.325	33.043
Iron (mg)												
Initial												
Unadjusted	0.021	-0.063	0.411	0.021	0.031	0.086	0.655*	0.238	0.482	0.200	0.112	1.074
Adjusted	0.043*	-0.036	0.393	0.022	0.027	0.085	0.564*	0.116	0.562	0.068	-0.061	1.188
Followup												
Unadjusted	0.089**	0.098**	0.381	0.067**	0.080**	0.067	3.271**	4.576**	0.684	0.229*	0.338	0.984
Adjusted	0.111**	0.113**	0.362	0.070**	0.077**	0.065	3.460**	4.863**	0.519	0.222*	0.223	0.995
Adj. w/ mediation	0.080**	0.088*	0.389	0.073**	0.078**	0.063	3.478**	4.583**	0.519	0.142	0.142	1.063

(continued)

Table V-B-5 (continued)

Nutrient	WIC Dairy Foods			WIC Juices			WIC Cereals			Other WIC Foods		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Magnesium (mg)												
Initial												
Unadjusted	2.412	-7.529	51.922	1.766	2.615	7.738	1.093*	0.898	0.504	6.058*	3.744	15.685
Adjusted	5.532*	-3.789	49.246	1.726	2.186	7.794	0.917	0.927	0.644	4.061	1.463	17.397
Followup												
Unadjusted	10.293**	11.712**	48.660	5.602**	6.825**	6.741	4.844**	6.613**	1.142	5.929*	5.959	16.594
Adjusted	12.851**	13.367**	46.543	5.838**	6.458**	6.569	5.047**	7.029**	0.957	5.868*	4.783	16.693
Adj. w/ mediation	9.213**	10.426*	49.584	5.991**	6.578**	6.443	4.734**	6.307**	1.243	5.600*	3.834	16.946
Phosphorus (mg)												
Initial												
Unadjusted	9.625	-81.302*	438.217	2.781	4.128	12.257	3.256*	2.817	2.034	18.564*	11.359	88.895
Adjusted	33.964	-51.010	417.259	2.696	3.437	12.364	2.802	2.940	2.395	8.955	-0.704	97.158
Followup												
Unadjusted	85.187**	90.043*	396.294	8.828**	10.775**	10.765	16.871**	23.484**	3.921	17.386*	26.672	84.712
Adjusted	110.388**	105.200**	375.473	9.197**	10.180**	10.497	17.565**	24.668**	3.301	17.783*	18.742	84.764
Adj. w/ mediation	76.268**	78.567*	403.962	9.426**	10.375**	10.308	16.518**	22.172**	4.261	14.462	14.126	87.619
Vitamin A (I.U.)												
Initial												
Unadjusted	19.266	-143.13*	651.637	33.056	48.841	147.691	130.021	80.349	79.015	17.372	11.829	170.991
Adjusted	63.923	-86.185	613.160	31.224	40.068	149.638	109.935	50.790	96.795	3.205	-5.474	183.125
Followup												
Unadjusted	117.386**	100.120	595.150	104.964**	129.068**	133.437	779.519**	1148.1**	127.259	11.498	36.297	152.789
Adjusted	159.745**	126.900*	560.106	109.124**	121.022**	130.485	815.462**	1208.5**	95.567	10.123	20.408	154.652
Adj. w/ mediation	113.407**	89.980	598.856	111.684**	123.946**	128.340	829.739**	1146.88**	87.195	5.627	15.412	158.484
Thiamin (mg)												
Initial												
Unadjusted	0.007	-0.020	0.149	0.015	0.022	0.066	0.042*	0.022	0.028	0.011*	0.009	0.041
Adjusted	0.016*	-0.009	0.141	0.014	0.018	0.067	0.037	0.013	0.033	0.005	0.002	0.046
Followup												
Unadjusted	0.030**	0.036**	0.140	0.047**	0.058**	0.059	0.239**	0.349**	0.043	0.012*	0.011	0.040
Adjusted	0.037**	0.040**	0.134	0.049**	0.054**	0.058	0.252**	0.368**	0.032	0.011*	0.007	0.041
Adj. w/ mediation	0.026**	0.032*	0.143	0.050**	0.056**	0.057	0.257**	0.349**	0.029	0.007	0.004	0.044
Riboflavin (mg)												
Initial												
Unadjusted	0.029	-0.094	0.642	0.002	0.002	0.007	0.047*	0.028	0.026	0.014*	0.010	0.098
Adjusted	0.068*	-0.048	0.610	0.002	0.002	0.007	0.040	0.018	0.032	0.005	-0.001	0.106
Followup												
Unadjusted	0.127**	0.145**	0.601	0.005**	0.006**	0.005	0.271**	0.392**	0.043	0.011	0.023	0.090
Adjusted	0.159**	0.165**	0.574	0.005**	0.006**	0.005	0.282**	0.413**	0.034	0.011	0.015	0.090
Adj. w/ mediation	0.114**	0.128*	0.613	0.006**	0.006**	0.005	0.288**	0.392**	0.030	0.008	0.011	0.093
Niacin (mg)												
Initial												
Unadjusted	0.018	-0.051	0.384	0.051	0.076	0.226	0.564*	0.307	0.346	0.243*	0.146	0.294
Adjusted	0.041*	-0.024	0.364	0.048	0.063	0.229	0.487	0.191	0.415	0.259*	0.175	0.279
Followup												
Unadjusted	0.075**	0.089**	0.361	0.162**	0.198**	0.200	3.201**	4.645**	0.544	0.214	0.202	0.382
Adjusted	0.093**	0.100**	0.346	0.169**	0.187**	0.195	3.347**	4.895**	0.416	0.245	0.251	0.355
Adj. w/ mediation	0.066**	0.078*	0.369	0.172**	0.190**	0.192	3.410**	4.643**	0.378	0.322*	0.276	0.292

Table V-B-5 (continued)

Nutrient	WIC Dairy Foods			WIC Juices			WIC Cereals			Other WIC Foods		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Vitamin B6 (mg)												
Initial												
Unadjusted	0.008	-0.025	0.157	0.005	0.007	0.021	0.055	0.032	0.032	0.020	0.014	0.079
Adjusted	0.018*	-0.012	0.148	0.005	0.006	0.022	0.046	0.020	0.039	0.007	-0.002	0.090
Followup												
Unadjusted	0.031**	0.034*	0.148	0.016**	0.019**	0.019	0.318**	0.464**	0.052	0.025*	0.021	0.076
Adjusted	0.039**	0.039**	0.141	0.016**	0.018**	0.019	0.332**	0.489**	0.039	0.022*	0.010	0.079
Adj. w/ mediation	0.028**	0.030*	0.150	0.016**	0.018**	0.018	0.338**	0.464**	0.036	0.019	0.005	0.082
Vitamin B12 (mcg)												
Initial												
Unadjusted	0.053	-0.220	1.451	0.000	0.000	0.000	0.164	0.107	0.086	0.044	0.027	0.383
Adjusted	0.144*	-0.116	1.374	0.000	0.000	0.000	0.139	0.069	0.108	0.013	-0.010	0.410
Followup												
Unadjusted	0.285**	0.326**	1.353	0.000	0.000	0.000	0.960**	1.380**	0.149	0.027	0.087	0.341
Adjusted	0.355**	0.372**	1.295	0.000	0.000	0.000	0.999**	1.453**	0.115	0.027	0.054	0.343
Adj. w/ mediation	0.255**	0.292*	1.379	0.000	0.000	0.000	1.030**	1.388**	0.093	0.020	0.045	0.349
Vitamin C (mg)												
Initial												
Unadjusted	0.193	-0.462	3.759	7.693	11.489	34.180	1.453	0.955	0.853	0.013	-0.039	0.034
Adjusted	0.417*	-0.197	3.567	7.396	9.531	34.526	1.249	0.588	1.037	0.039	-0.036	0.013
Followup												
Unadjusted	0.732**	0.879**	3.565	24.483**	29.940**	30.218	9.162**	13.439**	1.385	-0.026	-0.085	0.088
Adjusted	0.898**	0.989**	3.427	25.505**	28.251**	29.478	9.552**	14.092**	1.042	-0.076	-0.111	0.129
Adj. w/ mediation	0.640**	0.777*	3.643	26.090**	28.798**	28.994	9.898**	13.540**	0.793	-0.119	-0.157	0.166
N	2762	181	530	2762	181	530	2762	181	530	2762	181	530

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aSee Appendix V-A-2 for list of WIC foods.^bWIC = WIC at registration and at followup.

WIC/Control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control groups and differences from Control group means for WIC and WIC/Control groups.

^cInitial interviews controlled for duration of gestation at registration. Followup interviews controlled for initial nutrient intake and duration of gestation at both interviews.^dInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews adjusted for initial nutrient intake, duration of gestation at both interviews and maternal characteristics at registration into study. See Appendix V-A-3 for full covariate list.^eFurther adjusted for changes potentially initiated by WIC program, over and above WIC food benefits (change in nutrition education, smoking, and frequency, and exertion in work). See Appendix V-A-3 for specification of these variables.

Table V-B-6

Mean Daily Dietary Intake at Initial and Followup Interviews by WIC Status^a and Maternal Age

Maternal age (yrs)	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Total Intake Per Day						
Calories (kcal)						
Initial						
20-29	-34.6882	-63.2794	2014.5334	-20.6440	-47.0041	1994.0116
<18	80.9888	414.0613	2018.4453	63.9701	418.6650	2048.7446
18-19	55.2313	-40.2015	1982.3364	53.5467	-35.6290	1989.3163
30+	-287.5562	152.4269	2010.1261	-240.3858	135.5940	1989.4857
	MSE =	828176		MSE =	812191.3	
Followup						
20-29	70.8618	45.1634	1935.8950	94.2870	33.8430	1918.1726
<18	-49.2692	258.6827	2101.9465	-23.2520	268.7789	2063.5334
18-19	167.2349	144.3857	1859.0317	201.9626 *	149.9243	1820.1450
30+	65.2617	334.7588	1861.7598	148.1137	431.5638	1839.8829
	MSE =	676732.2		MSE =	658831.7	
Protein (g)						
Initial						
20-29	-2.1214	-3.8273	82.0566	-2.2155	-3.3950	81.8171
<18	6.3165	12.1504	76.1305	4.7884	12.0847	77.9944
18-19	4.2402	-6.3777	76.5856	3.5795	-6.2012	77.5595
30+	-12.7479	3.8258	84.0430	-11.2652	2.1925	82.8453
	MSE =	1692.169		MSE =	1657.396	
Followup						
20-29	3.0733	0.5398	77.5372	4.4245	-0.0560	76.2319
<18	-1.0874	14.8612	81.7700	-0.1341	16.3472	80.9102
18-19	5.6847	3.2902	75.4276	7.5289	4.3649	73.7506
30+	6.3559	22.3728	71.1881	11.3703	28.2865 *	68.9000
	MSE =	1606.47		MSE =	1551.585	
Fat (g)						
Initial						
20-29	-3.7617	-7.4286	87.4296	-2.8879	-5.9465	85.7850
<18	5.4947	12.9107	83.0213	5.0953	14.5872	85.8841
18-19	2.2435	-7.0905	85.8861	2.1181	-6.8657	86.5664
30+	-7.1072	12.3040	79.5945	-4.7143	11.8226	77.8649
	MSE =	2374.302		MSE =	2319.828	
Followup						
20-29	1.6972	-0.5250	80.8880	3.1996	0.3559	79.3808
<18	1.8592	12.3189	82.9625	2.9868	13.5916	82.2892
18-19	5.6061	1.4615	79.1098	7.2796	2.2422	77.2295
30+	7.2860	16.5816	70.6731	10.8329	21.7052	70.0202
	MSE =	1959.897		MSE =	1917.237	
Carbohydrate (g)						
Initial						
20-29	2.2878	4.5505	228.9822	4.3259	5.2901	227.4607
<18	2.6876	67.2983 *	245.2093	0.8642	64.1706 *	244.3242
18-19	4.5660	11.3443	229.9996	5.5384	12.5081	228.7500
30+	-44.9913 *	-1.3672	244.6586	-39.3948 *	-3.0555	244.5370
	MSE =	12920.16		MSE =	12790.47	

(continued)

Table V-B-6 (continued)

Maternal age (yrs)	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
20-29	11.3042	11.4804	228.4644	12.7813 *	7.5919	228.2382
<18	-15.5030	20.2075	262.3870	-12.3198	19.2923	255.5954
18-19	24.1046 *	27.2708	216.1973	27.4088 *	25.9811	212.3490
30+	-8.1841	28.3104	239.9863	-0.0356	35.1879	237.8393
	MSE =	11046.84		MSE =	10806.79	
Calcium (mg)						
Initial						
20-29	-5.3940	-79.5176	971.0774	27.1436	-21.0635	933.5905
<18	-45.3693	204.5793	1005.6747	-22.0274	-221.4889	1012.2716
18-19	67.6777	-178.6452	908.0004	112.1536	-133.7704	875.4279
30+	38.6806	81.3090	808.7446	66.8258	68.7269	791.5196
	MSE =	432905.8		MSE =	417740.8	
Followup						
20-29	114.2150 **	126.7179	892.2694	146.0983 **	151.1424 *	861.2277
<18	-57.0964	101.6872	1033.8555	-29.2172	111.9223	1024.2065
18-19	94.8575	97.1424	902.9948	136.6832 *	131.1403	853.4640
30+	137.1069	329.5860	838.2369	194.3271 *	383.2116 *	830.9060
	MSE =	344987.5		MSE =	334428.3	
Iron (mg)						
Initial						
20-29	-0.0060	-0.8582	14.3556	-0.1096	-1.0819	14.4047
<18	0.6658	4.3658	14.1365	0.3255	4.1301	14.5020
18-19	1.4094	-0.0799	13.6456	1.2666	-0.1340	13.9446
30+	-3.7207 *	-1.4717	16.7615	-3.8265 *	-2.4256	16.6524
	MSE =	91.85126		MSE =	91.31533	
Followup						
20-29	3.2985 **	1.1078	14.2917	3.3902 **	1.0329	14.3823
<18	1.3541	9.6554 **	14.9880	1.3395	9.7082 **	14.1070
18-19	3.7647 **	7.0804 **	13.7599	4.0605 **	7.2917 **	13.1615
30+	1.3465	5.0229	14.0377	2.2386	6.2595	14.4199
	MSE =	177.3541		MSE =	174.4829	
Magnesium (mg)						
Initial						
20-29	0.5253	-9.8440	262.5663	6.0317	-3.1417	256.3949
<18	15.9527	64.8339	244.0284	18.3629	63.3260	244.9090
18-19	22.2022	-5.8568	240.1827	27.0035	-0.8075	236.7919
30+	-55.7015 *	-12.3714	291.2686	-49.1739 *	-19.7094	290.2066
	MSE =	20587.02		MSE =	20122.59	
Followup						
20-29	18.5541 *	11.9079	250.6497	23.9566 **	12.1411	245.8946
<18	-3.6976	25.8944	271.1655	2.1842	30.4364	265.1803
18-19	21.0290	12.2858	242.1959	28.3368 *	15.4564	234.9845
30+	38.6541	37.9250	233.5596	53.2864 *	53.2402	228.3409
	MSE =	16914.21		MSE =	16357.73	

(continued)

Table V-B-6 (continued)

Maternal age (yrs)	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Phosphorus (mg)						
Initial						
20-29	-34.9797	-107.8510	1385.4724	-13.5575	-67.8843	1357.6947
<18	13.8707	271.3841	1339.1710	24.3691	274.3327	1353.8312
18-19	77.0821	-138.7845	1296.2337	105.2181	-105.3124	1279.7992
30+	-168.2266	35.4769	1370.9169	-141.1122	4.1025	1353.8804
	MSE =	508064.4		MSE =	495682.8	
Followup						
20-29	102.8963 **	105.3448	1279.0094	129.4945 **	107.5672	1256.6631
<18	-15.6753	194.1091	1388.6337	12.9062	209.4220	1355.4681
18-19	113.5248	99.4000	1261.5525	153.7100 *	126.4784	1216.9236
30+	170.5213	411.6550 *	1185.1305	239.1677 *	490.6473 *	1172.9490
	MSE =	412922		MSE =	398304.9	
Vitamin A (IU)						
Initial						
20-29	425.1621	289.7180	5850.8302	365.0843	138.8349	5876.9678
<18	1034.4898	1160.3960	5029.1677	713.7680	1010.7792	5396.0744
18-19	564.5520	-1814.7969	5504.1295	674.0383	-1848.7014	5550.4032
30+	-650.0962	13.9168	6502.5307	-281.1149	33.7246	5952.7145
	MSE =	85305428		MSE =	84568361	
Followup						
20-29	448.6903	-173.2605	6618.9597	600.0564	-482.9549	6494.3221
<18	2039.7007	6353.2139 **	4642.1976	1776.7474	6401.1118 **	4739.8254
18-19	269.8087	741.3060	5775.2803	397.3592	851.5888	5630.9023
30+	1111.1962	865.9872	6381.5532	1994.7883	1469.7232	6033.9018
	MSE =	83652314		MSE =	82600613	
Thiamin (mg)						
Initial						
20-29	0.0734	-0.0103	1.4335	0.0733	-0.0236	1.4392
<18	0.0127	0.4845 *	1.5631	-0.0257	0.4575	1.5642
18-19	0.1389	-0.0394	1.4350	0.1317	-0.0338	1.4393
30+	-0.3138	0.1761	1.6062	-0.2838	0.1317	1.6054
	MSE =	0.9887647		MSE =	0.9785861	
Followup						
20-29	0.3581 **	0.2486	1.4119	0.3573 **	0.2319	1.4265
<18	0.1266	0.7179 *	1.6007	0.1216	0.7221 *	1.5322
18-19	0.3932 **	0.7114 **	1.4116	0.4172 **	0.7321 **	1.3626
30+	0.2227	0.3295	1.3786	0.2942	0.4362	1.4085
	MSE =	1.467371		MSE =	1.440209	
Riboflavin (mg)						
Initial						
20-29	0.0224	-0.1428	2.0371	0.0558	-0.0691	1.9862
<18	0.0241	0.6130	2.0653	0.0265	0.6066	2.1349
18-19	0.1502	-0.2625	1.9233	0.2045	-0.1971	1.8970
30+	-0.0805	0.2432	1.8729	-0.0455	0.1727	1.8264
	MSE =	2.147769		MSE =	2.129354	

(continued)

Table V-B-6 (continued)

Maternal age (yrs)	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
20-29	0.4091 **	0.2395	1.9739	0.4441 **	0.2575	1.9487
<18	0.0069	1.0473 **	2.2324	0.0247	1.0640 **	2.1786
18-19	0.2117	0.4716	2.1080	0.2785	0.5440	2.0166
30+	0.3659	0.7728	1.7886	0.4952	0.9501	1.7905
	MSE =	2.847003		MSE =	2.792499	
Niacin (mg)						
Initial						
20-29	-0.8805	-1.5619	20.1205	-0.9056	-1.5918	20.0138
<18	1.5254	7.0373 *	18.8767	1.1513	7.0109 *	19.5253
18-19	1.7302	0.0083	17.7780	1.5672	-0.1663	18.1369
30+	-4.2684 *	4.5970	20.8473	-4.0399	3.7440	20.5028
	MSE =	167.2965		MSE =	165.2221	
Followup						
20-29	3.0981 **	0.3708	18.8919	3.3378 **	0.2197	18.8508
<18	0.7584	9.7957 *	21.0929	0.7217	10.1390 **	20.2162
18-19	4.4717 **	8.4261 **	18.2186	4.8467 **	8.6664 **	17.5443
30+	0.4626	5.7993	18.9086	1.9109	7.7389	18.9505
	MSE =	257.6253		MSE =	253.6673	
Vitamin B6 (mg)						
Initial						
20-29	-0.0687	-0.0574	1.6576	-0.0741	-0.0727	1.6582
<18	0.0704	0.7037 *	1.6048	0.0281	0.6601 *	1.6453
18-19	0.1227	-0.1227	1.5227	0.1151	-0.1180	1.5408
30+	-0.4089 *	0.2256	1.7913	-0.3929 *	0.1212	1.7806
	MSE =	1.383743		MSE =	1.3734	
Followup						
20-29	0.3554 **	0.0590	1.5776	0.3811 **	0.0297	1.5680
<18	0.0055	0.6188	1.8760	0.0255	0.6444	1.7850
18-19	0.3600 *	0.6160 *	1.5851	0.4168 **	0.6445 *	1.5003
30+	0.1394	0.3871	1.5238	0.2898	0.5425	1.5343
	MSE =	2.206105		MSE =	2.164951	
Vitamin B12 (mcg)						
Initial						
20-29	-0.8423	-2.3744	6.3805	-0.7349	-2.2010	6.2027
<18	0.1310	0.6987	5.3422	0.1024	0.6276	5.5848
18-19	0.3470	-1.1502	4.9088	0.6570	-1.0084	4.6807
30+	0.5815	-0.2066	4.5463	0.9476	-0.3740	4.4158
	MSE =	111.6225		MSE =	111.7373	
Followup						
20-29	1.1116	0.6571	5.9033	1.3008	0.4993	5.7039
<18	0.7856	7.8097 **	5.0616	0.6975	7.8068 **	5.1632
18-19	0.5642	1.5208	5.2589	0.7684	1.8160	5.2032
30+	2.6243	2.9377	4.1638	3.1808	3.3546	3.7339
	MSE =	154.5335		MSE =	153.899	

(continued)

Table V-B-6 (continued)

Maternal age (yrs)	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Vitamin C (mg)						
Initial						
20-29	8.6820	-10.5205	117.3800	8.8414	-13.3238	118.4834
<18	14.4661	91.2297 **	125.1461	7.7474	84.9029 **	125.4545
18-19	-8.5913	-11.8726	127.8464	-7.9248	-10.8122	126.6129
30+	-3.7115	45.3644	115.8003	5.2978	42.2590	112.3161
	MSE =	14937.08		MSE =	14491.24	
Followup						
20-29	35.8545 **	15.3514	110.2907	37.5650 **	9.5778	110.4056
<18	22.3137	42.6458	123.8556	20.3314	43.1097	118.4817
18-19	23.6670	76.5353 **	109.5636	24.4477	77.2147 **	108.4807
30+	14.9140	-36.4329	131.3513	28.1232	-23.9595	124.5011
	MSE =	17441.19		MSE =	17163.14	
Total Intake Adjusted for Caloric Intake						
Protein (g)						
Initial						
20-29	-0.7968	-1.4110	81.2433	-1.4301	-1.6065	81.7875
<18	3.2238	-3.6608	75.1677	2.3545	-3.8450	75.8823
18-19	2.1311	-4.8426	77.0017	1.5421	-4.8456	77.7085
30+	-1.7674	-1.9947	83.3979	-2.1188	-2.9667	82.9879
	MSE =	484.7011		MSE =	481.7198	
Followup						
20-29	0.2270	-1.3252	80.3189	0.5312	-1.5454	79.8413
<18	1.2337	2.6975	76.8175	1.0292	3.8436	77.5553
18-19	-0.6744	-3.2210	80.5261	-0.2323	-2.3108	80.4317
30+	4.3038	8.3154	77.3235	5.9193	10.4655	75.7967
	MSE =	525.5004		MSE =	519.5192	
Fat (g)						
Initial						
20-29	-2.0965	-4.3909	86.4071	-1.8999	-3.6969	85.7478
<18	1.6068	-6.9662	81.8110	2.0338	-5.4497	83.2275
18-19	-0.4079	-5.1606	86.4092	-0.4446	-5.1605	86.7539
30+	6.6968	4.9867	78.7836*	6.7903	5.3332	78.0442
	MSE =	465.9355		MSE =	459.6555	
Followup						
20-29	-1.8999	-3.2485	84.2200	-1.5230	-1.7725	83.5036
<18	4.2042	-2.4180	77.6445	4.2550	-1.4254	78.9195
18-19	-2.4745	-6.1246	86.1397	-2.4681	-5.6537	86.1588
30+	6.4181	1.3489	76.0668*	5.9279	1.9706	76.3983*
	MSE =	438.2136		MSE =	423.2457	
Carbohydrate (g)						
Initial						
20-29	5.9777	11.2817	226.7165	6.5318	10.3127	227.3776
<18	-5.9274	23.2533	242.5275	-5.9713	19.4343	238.3927
18-19	-1.3091	15.6207	231.1588	-0.1833	16.3152	229.1686
30+	-14.4031	-17.5813	242.8617	-13.7085	-17.5444	244.9375
	MSE =	3550.199		MSE =	3517.975	

(continued)

Table V-B-6 (continued)

Maternal age (yrs)	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
20-29	5.3640	9.4055	233.8813	4.3936	6.4101	235.7915
<18	-12.0706	-4.4926	253.7940*	-11.4989	-7.3127	249.9360
18-19	6.0925	15.6227	230.7519*	5.9622	13.8262	230.5541
30+	-16.2785	-10.9950	256.4283	-16.9390	-14.2451	257.1827*
	MSE =	3602.461		MSE =	3532.431	
Calcium (mg)						
Initial						
20-29	10.8001	-49.9757	961.1338	36.7902	0.9006	933.2270
<18	-83.1788	11.2754	993.9047	-51.9194	25.8548	986.3325
18-19	41.8930	-159.8771	913.0878	87.1322	-117.1217	877.2585
30+	172.9258 *	10.1487	800.8584*	179.1535 *	5.3664	793.2710
	MSE =	252479.8		MSE =	240468	
Followup						
20-29	88.1455 **	105.5424	918.9953	112.5923 **	139.6723 *	893.1894
<18	-50.9343	-28.3075	995.7285	-29.3277	-19.5849	999.5459
18-19	27.2491	20.9278	958.0482	60.3689	57.0675	919.8233
30+	146.1930	183.7319	877.2796	167.0825 *	197.8522	879.0514
	MSE =	224206.6		MSE =	217510.1	
Iron (mg)						
Initial						
20-29	0.2256	-0.4358	14.2134	0.0293	-0.7655	14.3995
<18	0.1252	1.6022	13.9683	-0.1051	1.3118	14.1283
18-19	1.0408	0.1884	13.7184	0.9061	0.1058	13.9710
30+	-1.8014	-2.4890	16.6487*	-2.2083	-3.3384	16.6776
	MSE =	54.97219		MSE =	54.52728	
Followup						
20-29	2.8065 **	0.7650	14.7538	2.6768 **	0.7245	15.0281
<18	1.6631	7.2876 **	14.0929	1.4300	7.2368 **	13.5093
18-19	2.5001 *	6.0005 **	14.8114	2.5169 *	6.1646 **	14.5338
30+	0.9413	1.8411	15.4154	1.0904	2.2750	15.9717
	MSE =	132.1992		MSE =	131.4582	
Magnesium (mg)						
Initial						
20-29	4.7822	-2.0784	259.9524	8.5645	2.6253	256.2995
<18	6.0139	14.0208	240.9344	10.5143	11.9595	238.0983
18-19	15.4243	-0.9233	241.5200	20.4338 *	3.5639	237.2726
30+	-20.4129	-31.0770	289.1956*	-19.6807	-36.3456	290.6665*
	MSE =	8117.124		MSE =	7898.877	
Followup						
20-29	11.3051 *	6.7855	258.1721	14.4266 **	9.0260	255.1074
<18	2.2447	-7.6587	255.7404	5.9063	-4.4639	253.6232
18-19	2.9727	-4.7589	256.2612	7.0773	-1.4350	252.8308
30+	30.7001 *	-8.9410	254.8246	35.2095 **	-5.4529	252.4931
	MSE =	6937.578		MSE =	6772.517	

(continued)

Table V-B-6 (continued)

Maternal age (yrs)	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Phosphorus (mg)						
Initial						
20-29	-12.2470	-66.3813	1371.5139	-0.0290	-37.0815	1357.1849
<18	-39.2047	0.0321	1322.6488	-17.5519	-0.0275	1317.4538
18-19	40.8867	-112.4388	1303.3752	70.1278	-81.9640	1282.3664
30+	20.2213	-64.4149	1359.8466	16.4178	-84.7552	1356.3366
	MSE =	152428.5		MSE =	146933.1	
Followup						
20-29	56.9453 **	65.9610	1324.8244	70.7862 **	80.6447	1311.4680
<18	4.6104	11.7116	1319.5634	21.5157	21.8684	1308.8752
18-19	12.7842	-12.9908	1344.5508	37.2930	16.9846	1319.7046
30+	144.6868 *	180.1843	1275.8164	158.9439 **	196.6241	1276.6495
	MSE =	134094.1		MSE =	129952	
Vitamin A (IU)						
Initial						
20-29	515.8190	455.0972	5795.1642	418.7871	261.1099	5874.9442
<18	822.8273	78.2561	4963.2779	547.3580	-78.3239	5251.6701
18-19	420.2062	-1709.7311	5532.6096	534.7433	-1756.0172	5560.5939
30+	101.4255	-384.4475	6458.3830	344.2178	-319.0058	5962.4645
	MSE =	79671792		MSE =	79095243	
Followup						
20-29	275.1330	-252.3057	6791.4220	348.5372	-542.9582	6732.0234
<18	2152.1884	5270.0888 *	4289.5973	1813.9657	5308.0021 *	4495.0200
18-19	-263.1549	285.2966	6196.7421	-221.4665	386.4812	6153.0539
30+	1125.8179	-263.9330	6798.5463	1735.8280	92.3786	6508.9830
	MSE =	77037816		MSE =	76469148	
Thiamin (mg)						
Initial						
20-29	0.0986 *	0.0358	1.4180	0.0884 *	0.0108	1.4387
<18	-0.0463	0.1831	1.5447	-0.0725	0.1511	1.5235
18-19	0.0987	-0.0102	1.4429	0.0925	-0.0077	1.4422
30+	-0.1045	0.0652	1.5939	-0.1079	0.0325	1.6082
	MSE =	0.55032		MSE =	0.5437074	
Followup						
20-29	0.3198 **	0.2251	1.4486	0.2985 **	0.2123	1.4814
<18	0.1501	0.4972 *	1.5247	0.1234	0.4907 *	1.4805
18-19	0.2705 *	0.6024 **	1.5146	0.2683 *	0.6200 **	1.4936
30+	0.1891	0.0620	1.4965	0.1926	0.0948	1.5456
	MSE =	1.043517		MSE =	1.035695	
Riboflavin (mg)						
Initial						
20-29	0.0567	-0.0801	2.0160	0.0764	-0.0223	1.9854
<18	-0.0560	0.2033	2.0404	-0.0371	0.1901	2.0797
18-19	0.0956	-0.2227	1.9341	0.1512	-0.1617	1.9009
30+	0.2040	0.0924	1.8562	0.1937	0.0378	1.8301
	MSE =	1.337475		MSE =	1.325689	

(continued)

Table V-B-6 (continued)

Maternal age (yrs)	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
20-29	0.3460 **	0.1915	2.0376	0.3567 **	0.2265	2.0304
<18	0.0394	0.7260 *	2.1216	0.0344	0.7331 *	2.1090
18-19	0.0353	0.2967	2.2497	0.0738	0.3718	2.1931
30+	0.3678	0.4016	1.9128	0.4003	0.4762	1.9372
	MSE =	2.03763		MSE =	2.020234	
Niacin (mg)						
Initial						
20-29	-0.5636	-0.9838	19.9259	-0.7169	-1.1623	20.0067
<18	0.7855	3.2546	18.6464	0.5668	3.1853	19.0181
18-19	1.2256	0.3755	17.8776	1.0780	0.1593	18.1726
30+	-1.6414	3.2045	20.6930	-1.8434	2.5051	20.5370
	MSE =	98.20453		MSE =	97.43765	
Followup						
20-29	2.3657 **	-0.1057	19.5887	2.3365 **	-0.1812	19.7615
<18	1.2220	6.8662 *	19.9423	0.9173	7.1056 *	19.4587
18-19	2.8206 *	7.0603 **	19.5122	2.8411 *	7.2246 **	19.2454
30+	0.0673	2.5177	20.4574	0.5922	3.4469	20.7181
	MSE =	183.5339		MSE =	182.7287	
Vitamin B6 (mg)						
Initial						
20-29	-0.0415	-0.0078	1.6409	-0.0578	-0.0356	1.6576
<18	0.0070	0.3793	1.5851	-0.0224	0.3298	1.6015
18-19	0.0794	-0.0912	1.5312	0.0729	-0.0899	1.5439
30+	-0.1836	0.1061	1.7781	-0.2032	0.0142	1.7836
	MSE =	0.8756487		MSE =	0.8680123	
Followup						
20-29	0.2942 **	0.0276	1.6347	0.2970 **	0.0035	1.6443
<18	0.0373	0.3734	1.7823	0.0338	0.3868	1.7228
18-19	0.2148	0.4858 *	1.7022	0.2429	0.5111 *	1.6499
30+	0.1043	0.0850	1.6609	0.1756	0.1532	1.6918
	MSE =	1.663959		MSE =	1.650634	
Vitamin B12 (MCG)						
Initial						
20-29	-0.7514	-2.2085	6.3247	-0.6812	-2.0787	6.2007
<18	-0.0812	-0.3866	5.2761	-0.0640	-0.4612	5.4405
18-19	0.2023	-1.0448	4.9374	0.5177	-0.9158	4.6909
30+	1.3352	-0.6061	4.5021	1.5728	-0.7267	4.4256
	MSE =	105.9636		MSE =	106.2751	
Followup						
20-29	0.8799	0.5096	6.1291	0.9794	0.3854	6.0042
<18	0.8849	6.5299 *	4.6850	0.7207	6.4975 *	4.8987
18-19	-0.0654	1.0289	5.7560	0.0288	1.3090	5.8224
30+	2.6737	1.6228	4.6161	2.9012	1.7229	4.2800
	MSE =	145.6037		MSE =	145.3327	

(continued)

Table V-B-6 (continued)

Maternal age (yrs)	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Vitamin C (mg)						
Initial						
20-29	10.4722	-7.2547	116.2808	9.9053	-10.9013	118.4433
<18	10.2864	69.8609 *	123.8449	4.4505	63.3252 *	122.5935
18-19	-11.4417	-9.7979	128.4087	-10.6845	-8.9759	126.8148
30+	11.1287	37.4980	114.9286	17.6871	35.2705	112.5093
	MSE =	12735.03		MSE =	12337.42	
Followup						
20-29	33.0763 **	13.4395	112.9961	33.4217 **	7.9223	114.3274
<18	24.3284	27.5903	118.3913	20.9723	27.3945	114.5816
18-19	14.0262	69.1948 **	117.0795	13.1227	69.6038 **	117.7979
30+	15.3116	-53.6607	137.8180	23.9636	-46.0001	132.2589
	MSE =	15554.38		MSE =	15345.24	
Intake from Potential WIC Foods						
Calories (kcal)						
Initial						
20-29	48.2801 *	-43.1823	384.9965	50.0341 *	-35.3539	383.4386
<18	-13.4212	119.7731	423.6027	-3.0525	118.7428	409.4699
18-19	36.0094	-112.3012	394.9826	53.3003	-103.1114	385.8004
30+	80.2155	109.2569	334.9871	72.9538	77.6992	339.0794
	MSE =	121043.4		MSE =	116405	
Followup						
20-29	115.2044 **	113.7785 **	366.3219	127.1966 **	109.0435 **	358.7019
<18	20.2355	178.7412 *	434.9067	36.0394	184.0983 *	410.0162
18-19	125.8455 **	177.8372 **	351.5223	145.4083 **	192.4296 **	328.4027
30+	176.9571 **	148.4884	317.1929	207.7135 **	172.7370	314.0662
	MSE =	113283.2		MSE =	109467.9	
Protein (g)						
Initial						
20-29	2.1881	-2.3434	20.9733	2.3308 *	-1.6520	20.7909
<18	-1.1101	3.7128	22.3923	-0.4773	3.5645	21.8293
18-19	2.0339	-6.0105	21.0174	2.9981	-5.3434	20.5690
30+	4.3590	2.6309	18.1876	3.7454	0.9257	18.3043
	MSE =	351.6413		MSE =	337.315	
Followup						
20-29	4.3443 **	4.6301 *	20.0993	5.0566 **	4.4831 *	19.5277
<18	0.5106	7.1522	22.6654	1.5477	7.4342	21.6084
18-19	5.5760 **	6.2772 *	18.6120	6.7392 **	7.0576 *	17.3283
30+	8.7286 **	9.5774	16.5353	10.2451 **	10.6061 *	16.3609
	MSE =	305.6116		MSE =	294.6687	
Fat (g)						
Initial						
20-29	1.6533	-2.1400	20.0712	1.8287	-1.5260	19.8310
<18	-3.1384	3.0526	22.8781	-2.3212	3.3730	22.1511
18-19	1.5985	-7.0145 *	19.9943	2.7214	-6.6051	19.3669
30+	5.6080	5.2413	14.9602	5.3039	3.8041	15.1557
	MSE =	358.0916		MSE =	348.6317	

(continued)

Table V-B-6 (continued)

Maternal age (yrs)	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
20-29	3.8296 **	4.7602 *	18.3880	4.3690 **	4.5822 *	17.8681
<18	-0.7896	6.3100	21.7085	0.1463	6.8519	21.1441
18-19	4.0765 *	3.6054	18.4807	5.1030 **	4.1105	17.3877
30+	6.4726 *	8.3974	16.3559	7.6467 **	9.4031	16.1933
	MSE =	301.9154		MSE =	294.7852	
Carbohydrate (g)						
Initial						
20-29	6.5371 **	-3.6699	30.8028	6.4721 **	-3.6774	31.1069
<18	5.1997	20.8384 *	32.7408	5.3970	20.0755 *	31.3139
18-19	3.4743	-6.7021	33.5889	4.3537	-5.9610	33.0902
30+	3.1168	13.8006	32.6993	2.6224	10.8767	33.2230
	MSE =	1383.806		MSE =	1329.473	
Followup						
20-29	16.7888 **	13.2828 **	30.7166	17.9008 **	12.7116 **	30.5385
<18	6.2041	25.0207 *	38.6035	7.1789	24.9995 *	34.4037
18-19	17.6026 **	30.4660 **	28.3312	19.1652 **	32.4264 **	26.1606
30+	22.4573 **	9.4852	25.8519	25.9730 **	12.2202	25.7548
	MSE =	1703.347		MSE =	1651.116	
Calcium (mg)						
Initial						
20-29	31.8337	-101.9861	571.2407	53.7269	-58.4214	545.6502
<18	-61.2912	104.1539	616.7362	-33.0239	115.6948	609.4684
18-19	52.0306	-216.8175 *	549.0062	97.3648	-180.2937	517.5935
30+	115.5590	92.0654	440.1048	122.0385	63.8701	435.6901
	MSE =	308898.4		MSE =	298121	
Followup						
20-29	115.7551 **	96.6518	530.7670	138.4253 **	108.4204	508.8628
<18	-1.1326	171.7366	603.2674	25.0879	183.9767	590.2097
18-19	110.7413 *	114.9618	533.0661	142.9979 **	141.7855	495.0595
30+	224.8214 **	243.4582	412.2385	263.8542 **	278.4835	411.0384
	MSE =	259692.9		MSE =	252127.2	
Iron (mg)						
Initial						
20-29	0.8438 *	-0.3823	1.9958	0.6579	-0.7156	2.0874
<18	0.5509	2.8853	2.1218	0.4252	2.8080	2.4863
18-19	1.2249	0.1809	1.9758	1.0558	0.0167	2.3822
30+	0.7655	-0.6425	2.2325	0.2613	-1.4962	2.1452
	MSE =	40.63781		MSE =	39.91764	
Followup						
20-29	3.8121 **	1.7926	2.2511	3.9495 **	1.9562	2.2492
<18	2.9126	10.0573 **	1.6878	2.9701	10.0121 **	1.0624
18-19	4.7941 **	8.6592 **	1.4936	5.0444 **	8.9692 **	1.0244
30+	1.7835	2.7499	2.7656	2.1966	3.0302	3.1660
	MSE =	126.9688		MSE =	126.0957	

(continued)

Table V-B-6 (continued)

Maternal age (yrs)	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Magnesium (mg)						
Initial						
20-29	14.3413 **	-6.2953	73.4923	14.8085 **	-3.3483	73.4916
<18	4.1880	33.0401	78.4515	7.0030	31.8383	73.6089
18-19	8.6892	-18.4717	77.5362	11.8897	-16.0014	75.2322
30+	11.8518	20.1201	72.1064	9.0111	14.0873	74.8144
	MSE =	6421.459		MSE =	6122.408	
Followup						
20-29	23.2816 **	21.5666 *	75.6660	25.5821 **	20.3877 *	74.5068
<18	2.0297	33.2849	92.3493	5.6194	34.1115	85.7978
18-19	30.6319 **	41.1016 **	67.7432	34.7466 **	44.7296 **	63.0957
30+	44.7453 **	28.6133	57.5433	50.3682 **	32.4852	57.1459
	MSE =	6160.023		MSE =	5954.031	
Phosphorus (mg)						
Initial						
20-29	43.1666	-79.9679	535.7790	52.4180	-52.6841	524.2477
<18	-33.2959	120.4846	569.6555	-13.3732	121.6688	559.0357
18-19	47.8904	-181.4821 *	535.1069	78.1039	-157.8280	517.8642
30+	107.6331	78.1350	449.2813	101.1404	43.5960	448.0692
	MSE =	242095.1		MSE =	233882.6	
Followup						
20-29	112.0448 **	106.7615 *	507.7551	130.3379 **	108.9506 *	492.3474
<18	15.0173	183.3980	570.7840	38.9290	193.4492	547.7691
18-19	140.3722 **	165.3849 *	476.1208	168.8955 **	187.9651 *	442.1785
30+	209.0581 **	222.9842	411.6957	244.7053 **	251.5750	413.6882
	MSE =	206098.9		MSE =	199744.9	
Vitamin A (IU)						
Initial						
20-29	147.1629	-247.4738	1075.7386	158.4858	-239.1655	1037.9914
<18	53.1879	1115.4232 **	1168.9218	51.6679	1121.3977 **	1262.6089
18-19	401.9398 *	-338.4940	949.1643	424.7556 *	-316.2283	994.6696
30+	358.5040	288.7045	791.8709	308.3057	79.3300	735.6305
	MSE =	2986452		MSE =	2961070	
Followup						
20-29	1047.4587 **	506.5050	1055.4516	1114.5974 **	577.3939	1018.4212
<18	692.2127	2407.7594 **	1038.7880	716.7645	2424.6431 **	899.3932
18-19	1246.8123 **	2510.3756 **	875.2048	1340.6828 **	2620.5285 **	714.8735
30+	531.7815	677.5681	1094.6160	705.2810	845.0518	1187.3183
	MSE =	9355702		MSE =	9276675	
Thiamin (mg)						
Initial						
20-29	0.0686 *	-0.0535	0.2830	0.0660 *	-0.0628	0.2807
<18	0.0410	0.3828 **	0.3167	0.0388	0.3822 **	0.3314
18-19	0.1142 *	-0.0628	0.2713	0.1148 *	-0.0628	0.2868
30+	0.0810	0.0942	0.2476	0.0622	0.0314	0.2417
	MSE =	0.2866226		MSE =	0.2828238	

(continued)

Table V-B-6 (continued)

Maternal age (yrs)	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
20-29	0.3470 **	0.1879	0.2885	0.3634 **	0.2028	0.2844
<18	0.2164	0.7694 **	0.3125	0.2207	0.7692 **	0.2584
18-19	0.3885 **	0.7744 **	0.2490	0.4143 **	0.8060 **	0.2038
30+	0.2066	0.1976	0.3010	0.2576	0.2394	0.3278
	MSE =	0.8796004		MSE =	0.8724069	
Riboflavin (mg)						
Initial						
20-29	0.0834	-0.1216	0.7845	0.1013	-0.0849	0.7533
<18	-0.0891	0.3534	0.9006	-0.0609	0.3677	0.9235
18-19	0.2082 *	-0.2396	0.6982	0.2526 **	-0.2042	0.6904
30+	0.2207	0.1202	0.5770	0.1957	0.0182	0.5609
	MSE =	0.7978012		MSE =	0.7781527	
Followup						
20-29	0.4199 **	0.2585	0.7614	0.4549 **	0.2920 *	0.7369
<18	0.2052	0.9069 **	0.8126	0.2345	0.9241 **	0.7541
18-19	0.4624 **	0.8311 **	0.7351	0.5201 **	0.8845 **	0.6490
30+	0.3931	0.4847	0.6325	0.4708 *	0.5640	0.6722
	MSE =	1.529314		MSE =	1.502798	
Niacin (mg)						
Initial						
20-29	0.7665 *	-0.4928	1.3099	0.7534 *	-0.5622	1.2394
<18	0.4826	4.2131 **	1.4485	0.4917	4.3039 **	1.7086
18-19	1.4088 *	-0.3226	1.0358	1.3478 *	-0.4104	1.2792
30+	0.9104	0.8705	0.9479	0.6024	0.1805	0.9205
	MSE =	38.34235		MSE =	38.1113	
Followup						
20-29	3.7794 **	1.6214	1.6172	3.9367 **	1.9115	1.5498
<18	2.5793	9.7142 **	1.4297	2.5910	9.7723 **	1.0130
18-19	4.7618 **	9.2313 **	0.9473	5.0043 **	9.5505 **	0.4895
30+	1.3012	2.2526	2.1337	1.7214	2.6776	2.5131
	MSE =	140.5338		MSE =	139.9958	
Vitamin B6 (mg)						
Initial						
20-29	0.0797 *	-0.0456	0.2893	0.0708	-0.0605	0.2913
<18	0.0183	0.3797 *	0.3287	0.0165	0.3688 *	0.3492
18-19	0.1577 *	-0.0475	0.2601	0.1524 *	-0.0539	0.2890
30+	0.0780	-0.0113	0.2745	0.0338	-0.0978	0.2677
	MSE =	0.4488584		MSE =	0.4421363	
Followup						
20-29	0.4014 **	0.1862	0.3126	0.4162 **	0.2082	0.3127
<18	0.2776	0.9519 **	0.2966	0.2849	0.9559 **	0.2276
18-19	0.5123 **	0.9430 **	0.2251	0.5380 **	0.9740 **	0.1708
30+	0.2125	0.3125	0.3242	0.2547	0.3521	0.3772
	MSE =	1.488848		MSE =	1.478021	

(continued)

Table V-B-6 (continued)

Maternal age (yrs)	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Vitamin B12 (mcg)						
Initial						
20-29	0.2129	-0.2775	1.9639	0.2382	-0.2253	1.8941
<18	-0.2550	1.0215	2.3052	-0.2068	1.0453	2.4174
18-19	0.6296 *	-0.5445	1.6868	0.7137 **	-0.4799	1.7202
30+	0.6474	0.2757	1.3766	0.5472	-0.0662	1.3050
	MSE =	6.213409		MSE =	6.091377	
Followup						
20-29	1.2969 **	0.7396	1.9205	1.3883 **	0.8394	1.8613
<18	0.7347	3.0195 **	1.9459	0.8033	3.0597 **	1.7689
18-19	1.5062 **	2.7896 **	1.7745	1.6628 **	2.9323 **	1.5303
30+	1.0486	1.2967	1.6282	1.2685 *	1.5166	1.7642
	MSE =	15.49313		MSE =	15.29433	
Vitamin C (mg)						
Initial						
20-29	9.1873	-6.2532	37.4343	9.3477	-8.2310	38.3558
<18	21.8107	73.1347 **	37.6578	19.7238	72.2343 **	34.7659
18-19	2.1527	-11.6508	44.3031	2.3299	-11.6415	43.3971
30+	6.9610	61.7696 *	35.8684	11.1997	59.4337 *	35.7191
	MSE =	7747.589		MSE =	7594.826	
Followup						
20-29	38.4095 **	30.0596 *	32.9745	39.9877 **	27.2030 *	33.5242
<18	14.8486	44.9349	54.6312	14.0327	43.9743	46.7458
18-19	29.0896 **	81.5479 **	33.7123	30.6495 **	84.2682 **	31.5438
30+	33.0263	-17.4509	39.7997	42.5484 *	-10.0996	36.5011
	MSE =	11017.91		MSE =	10852.18	
Maternal age (yrs)	WIC	WIC/control	Control	Total		
20-29	1,558	91	334	1,983		
<18	413	31	44	488		
18-19	541	44	107	692		
30+	250	15	45	310		
Total	2,762	181	530	3,473		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/Control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for control group and differences from control group means for WIC and WIC/Control groups.

^bInitial interviews controlled for duration of gestation at registration. Follow-up interviews controlled for initial nutrient intake and duration of gestation at both interviews.^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews adjusted for initial nutrient intake, duration of gestation at both interviews and maternal characteristics at registration into study. See Appendix V-A-3 for full covariate list.

Table V-B-7

Mean Daily Dietary Intake at Initial and Followup Interviews
by WIC Status^a and Maternal Height

Maternal Height (cm)	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Total Intake Per Day						
Calories (kcal)						
Initial						
<157.5	28.5866	13.9425	1929.1553	32.0260	5.3729	1934.0576
157.5-162.5	-158.0474*	50.9384	2078.5915	-156.5066*	52.8316	2075.4397
162.6-167.5	205.7606*	333.4398	1853.1284	230.4970*	361.8016*	1829.4610
167.6+	-78.9209	-172.9717	2130.9685	-64.0974	-166.5721	2116.0379
	MSE =	831782.6		MSE =	810094	
Followup						
<157.5	56.8510	99.0534	1965.6305	78.0682	105.4534	1929.6492
157.5-162.5	67.2562	143.1489	1921.9830	105.2592	153.8478	1896.2817
162.6-167.5	32.1383	45.3386	1971.9651	48.9293	60.5956	1966.4046
167.6+	186.1877*	282.7900	1850.8190	218.3029*	243.5208	1833.9733
	MSE =	678525.8		MSE =	659924.1	
Protein (g)						
Initial						
<157.5	3.4221	-4.2454	75.8520	2.8183	-4.6826	76.6889
157.5-162.5	-5.5803	0.7818	82.3451	-6.0287	0.8605	82.6477
162.6-167.5	7.2426	9.2307	75.9913	7.7760	9.2094	75.4500
167.6+	-6.4637	-11.2471	87.8953	-6.3686	-10.2540	87.5589
	MSE =	1691.825		MSE =	1653.637	
Followup						
<157.5	5.6285	8.5471	75.8333	7.1385	9.7421	73.7673
157.5-162.5	2.7234	4.8531	75.7157	4.7475	5.8433	74.2842
162.6-167.5	1.1860	-2.7066	79.8039	2.5164	-1.9246	79.2527
167.6+	4.4276	11.2946	77.5730	6.1127	10.6287	76.3179
	MSE =	1608.07		MSE =	1554.519	
Fat (g)						
Initial						
<157.5	-0.2088	-5.9335	81.3893	0.3947	-5.1773	82.3851
157.5-162.5	-8.0159*	-4.4988	89.6854	-7.9903*	-4.1211	89.4903
162.6-167.5	8.0020	18.7045	80.2822	9.9929	21.3257*	78.0344
167.6+	-3.0109	-12.8398	91.1308	-2.2628	-12.0855	89.4143
	MSE =	2376.257		MSE =	2311.192	
Followup						
<157.5	2.4031	3.3762	79.2807	3.8079	4.0926	78.6557
157.5-162.5	3.7806	3.9293	78.3496	5.3282	5.0330	77.1525
162.6-167.5	-1.8163	-6.7143	84.9234	-0.1995	-4.0170	83.3476
167.6+	7.3919	13.8069	78.2152	9.2876*	13.7907	76.0850
	MSE =	1961.953		MSE =	1916.912	

(continued)

Table V-B-7 (continued)

Maternal Height (cm)	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Carbohydrate (g)						
Initial						
<157.5	4.8182	22.6355	227.0671	5.1789	19.4507	225.0410
157.5-162.5	-16.2159	21.3905	240.0486	-15.0429	21.2276	239.1132*
162.6-167.5	26.1084*	31.2021	211.2279	27.7455*	32.6267	210.4328
167.6+	-5.6506	-4.1637	243.5116	-3.2458	-4.8826	243.5463*
	MSE =	13021.64		MSE =	12796.33	
Followup						
<157.5	3.7576	6.9404	240.9555	4.7662	6.2111	235.2428
157.5-162.5	4.8604	21.4779	233.1619	9.1357	21.0990	230.6084
162.6-167.5	13.4060	36.4621	225.0564	13.1080	34.0606	227.3057
167.6+	24.9254*	22.1454	215.1827	27.1908*	12.9367	216.7730
	MSE =	11070.23		MSE =	10825.29	
Calcium (mg)						
Initial						
<157.5	13.7886	-157.3678	919.8818	41.2813	-119.5749	893.6491
157.5-162.5	-26.1311	33.1785	944.4624	8.7146	83.1346	919.1382
162.6-167.5	91.8173	10.3041	916.0776	128.1786	48.0417	879.8874
167.6+	-25.7044	-28.2935	1018.4790	20.7312	9.4603	980.0745
	MSE =	433642.6		MSE =	418103.2	
Followup						
<157.5	130.8391*	151.0540	858.7142	161.4333**	181.5870	827.1576
157.5-162.5	97.7841*	173.1824	879.3682	142.0119**	210.3874*	845.4867
162.6-167.5	50.1107	87.7554	977.9976	77.3699	105.7637	957.1606
167.6+	90.8649	155.3679	918.6538	133.8667*	164.1051	884.0273
	MSE =	344956.7		MSE =	334547.9	
Iron (mg)						
Initial						
<157.5	0.6097	-0.5144	14.1699	0.4675	-0.8764	14.1399
157.5-162.5	-0.1128	1.6912	14.0501	-0.2756	1.4338	14.1673
162.6-167.5	0.3563	0.7818	14.4337	0.3035	0.6246	14.5742
167.6+	-0.8228	-2.0695	15.2948	-1.0491	-2.1527	15.6348
	MSE =	92.14148		MSE =	91.48393	
Followup						
<157.5	3.3499**	4.1715	13.8469	3.3258**	4.3544*	13.6141
157.5-162.5	2.6092*	4.1063*	13.8957	2.8174**	4.3247*	13.7838
162.6-167.5	3.0172*	7.2568**	14.5684	3.1576*	7.1621**	14.5731
167.6+	3.0027*	2.5097	14.9267	3.4704*	2.2887	14.6373
	MSE =	178.0423		MSE =	175.2466	
Magnesium (mg)						
Initial						
<157.5	16.8804	9.6517	242.3169	19.8157	10.6675	239.2741
157.5-162.5	-19.1758	8.4247	268.0987	-13.2518	14.8292	263.6513
162.6-167.5	31.3022*	22.2542	237.3206	39.0575**	25.9914	230.5562
167.6+	-12.7662	-37.6302	283.4257	-6.6697	-32.7668	278.5715*
	MSE =	20577.77		MSE =	20112.39	

(continued)

Table V-B-7 (continued)

Maternal Height (cm)	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Followup						
<157.5	10.9192	5.7351	261.5329	15.2256	9.7479	254.7967
157.5-162.5	15.7354	17.1593	247.1437	25.1839*	23.6159	240.3489
162.6-167.5	11.3122	18.4930	257.5622	14.6583	20.6719	256.0444
167.6+	40.7739**	33.3648	229.7330	47.7670**	29.2970	225.2455
	MSE =	16908.71		MSE =	16359.06	
Phosphorus (mg)						
Initial						
<157.5	21.9131	-136.4891	1316.2413	39.0120	-116.3365	1295.8474
157.5-162.5	-77.9335	-17.0436	1370.3550	-56.3709	16.8045	1354.1585
162.6-167.5	99.5361	155.8264	1295.1521	128.2747	177.3520	1270.0553
167.6+	-97.0227	-136.5330	1471.1144	-65.4674	-108.2021	1448.4502
	MSE =	508659.3		MSE =	495333.8	
Followup						
<157.5	111.2711	136.4348	1276.8231	140.6928*	160.4224	1232.2212
157.5-162.5	101.7571*	177.6248	1250.2514	143.7436**	207.2581*	1220.1039
162.6-167.5	54.6601	62.5403	1331.3352	74.2682	74.0759	1324.3720
167.6+	124.9603	222.7461	1270.4342	159.0397*	203.6185	1251.7864
	MSE =	413238.9		MSE =	398866.4	
Vitamin A (IU)						
Initial						
<157.5	214.4653	-486.5898	6009.8122	76.1920	-602.2162	6120.7109
157.5-162.5	748.8845	279.7236	5182.8340	801.9126	302.5232	5172.5933
162.6-167.5	1334.1800	-164.7205	5643.7062	1424.7850	-574.9210	5606.7573
167.6+	-1045.4448	-698.1423	6664.0413	-1014.9231	-533.0457	6562.0536
	MSE =	85175072		MSE =	84403412	
Followup						
<157.5	2016.7190*	1401.8531	4934.4129	2049.8842*	1423.2213	4995.9202
157.5-162.5	-304.6642	-365.8860	6542.7729	-98.5685	-438.0537	6395.1642
162.6-167.5	1059.9487	2418.7601	5992.9323	1348.0670	2201.6938	5755.9512
167.6+	-7.6050	1830.3942	7566.4324	190.7251	1866.4122	7279.7110
	MSE =	83602805		MSE =	82457801	
Thiamin (mg)						
Initial						
<157.5	0.0715	0.0349	1.4787	0.0638	0.0107	1.4619
157.5-162.5	0.0553	0.3164*	1.4142	0.0480	0.3039*	1.4193
162.6-167.5	0.1490	0.1233	1.4229	0.1536	0.1127	1.4326
167.6+	-0.0934	-0.2141	1.5582	-0.1018	-0.2273	1.5851
	MSE =	0.9937973		MSE =	0.9793305	
Followup						
<157.5	0.2650*	0.3803	1.4673	0.2582*	0.3855	1.4432
157.5-162.5	0.3591**	0.4098*	1.3616	0.3774**	0.4271*	1.3515
162.6-167.5	0.2609*	0.6133*	1.5208	0.2505	0.5865*	1.5465
167.6+	0.4155**	0.5176*	1.3976	0.4427**	0.4958*	1.3880
	MSE =	1.471414		MSE =	1.443115	

(continued)

Table V-B-7 (continued)

Maternal Height (cm)	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Riboflavin (mg)						
Initial						
<157.5	0.0425	-0.1942	1.9690	0.0737	-0.1578	1.9370
157.5-162.5	0.1058	0.3233	1.9047	0.1404	0.3782	1.8776
162.6-167.5	0.1498	-0.0684	2.0107	0.1946	-0.0353	1.9724
167.6+	-0.2103	-0.2353	2.2179	-0.1599	-0.1643	2.1772
	MSE =	2.152635		MSE =	2.12853	
Followup						
<157.5	0.4361**	0.3797	1.8792	0.4625**	0.4454	1.8385
157.5-162.5	0.2117	0.4083	1.9923	0.2647*	0.4655	1.9570
162.6-167.5	0.2824	0.8146*	2.1149	0.3257	0.8267*	2.0846
167.6+	0.4039*	0.5997	2.0795	0.4800**	0.5867	2.0174
	MSE =	2.847688		MSE =	2.795872	
Niacin (mg)						
Initial						
<157.5	0.3911	0.5088	18.6243	0.3173	0.1790	18.7825
157.5-162.5	-0.2755	4.2447*	19.0858	-0.4594	3.9609*	19.1823
162.6-167.5	0.6157	0.1260	19.4619	0.8276	0.0883	19.3334
167.6+	-2.6442	-4.4959	21.9134	-2.7638*	-4.1765	21.9605
	MSE =	168.0331		MSE =	165.47	
Followup						
<157.5	3.0073	3.2324	18.9235	3.0300*	3.5237	18.7567
157.5-162.5	2.4761	3.5914	18.4110	2.7326*	3.7083	18.2535
162.6-167.5	2.7816	7.8101*	19.4716	3.1874	7.8431*	19.2303
167.6+	3.6151*	4.9570	19.4327	4.2209*	4.7929	18.9418
	MSE =	258.597		MSE =	254.5422	
Vitamin B6 (mg)						
Initial						
<157.5	0.0674	0.0306	1.5795	0.0480	-0.0133	1.5790
157.5-162.5	-0.0816	0.3385	1.6278	-0.0928	0.3183	1.6357
162.6-167.5	0.0724	0.0449	1.5684	0.0787	0.0177	1.5737
167.6+	-0.2365	-0.2640	1.7953	-0.2438	-0.2551	1.8183
	MSE =	1.389651		MSE =	1.37503	
Followup						
<157.5	0.3021*	0.1992	1.6264	0.3217*	0.2255	1.5769
157.5-162.5	0.2545*	0.2463	1.5675	0.2969*	0.2558	1.5414
162.6-167.5	0.3252*	0.8057**	1.6349	0.3572*	0.7675**	1.6258
167.6+	0.3538*	0.2722	1.5939	0.4245**	0.2603	1.5495
	MSE =	2.212223		MSE =	2.168896	
Vitamin B12 (mcg)						
Initial						
<157.5	-1.1324	-3.1022	6.5705	-1.0472	-3.0663	6.5433
157.5-162.5	0.7216	0.3553	4.4094	0.9409	0.5336	4.2508
162.6-167.5	0.3341	-1.7673	6.0341	0.5810	-1.7398	5.8490
167.6+	-2.4471*	-2.4516	7.3976	-2.2901*	-2.2442	7.1536
	MSE =	111.3147		MSE =	111.3468	

(continued)

Table V-B-7 (continued)

Maternal Height (cm)	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Followup						
<157.5	2.5001*	1.5459	4.0181	2.6186*	1.7304	3.9094
157.5-162.5	0.0641	1.1512	5.5710	0.2755	1.2836	5.4379
162.6-167.5	1.6876	2.7894	5.3530	2.0810	2.6443	5.0159
167.6+	0.3121	4.5582	7.5156	0.5213	4.5089	7.3033
	MSE =	154.0856		MSE =	153.675	
Vitamin C (mg)						
Initial						
<157.5	14.2526	19.1138	117.2544	9.6988	11.6419	117.8425
157.5-162.5	-7.3121	27.6252	129.1382	-5.6498	27.8087	128.2458*
162.6-167.5	33.4388*	14.0206	97.5487	34.3160**	7.6649	98.6484
167.6+	-10.8340	-21.6046	128.9995	-9.5225	-19.3129	129.9782
	MSE =	15002.53		MSE =	14525.81	
Followup						
<157.5	31.3659*	55.5168*	116.9962	32.3429*	54.5498*	112.5926
157.5-162.5	19.5677	16.0176	116.6390	23.6557*	15.8014	114.2077
162.6-167.5	36.5794**	26.2032	111.0145	36.7897**	21.0320	113.1715
167.6+	42.7694**	26.2371	103.4629	43.2475**	24.3130	104.2777
	MSE =	17471.08		MSE =	17207.29	
Total Intake Adjusted for Caloric Intake						
Protein (g)						
Initial						
<157.5	2.3337	-4.7763	78.2917	1.6003	-4.8869	78.9395
157.5-162.5	0.4372	-1.1577	79.0951	-0.0761	-1.1489	79.5211
162.6-167.5	-0.5916	-3.4648	81.3257	-0.9907	-4.5512	81.6789
167.6+	-3.4588	-4.6613	82.6511	-3.9507	-3.9187	82.8882
	MSE =	486.1622		MSE =	481.9333	
Followup						
<157.5	3.7538	3.6642	77.1293	4.2964	4.6629	76.5672
157.5-162.5	0.6453	-1.1783	78.4287	1.0927	-0.5483	78.0740
162.6-167.5	-0.8328	-6.2037	81.6779	-0.2898	-6.2666	81.4668
167.6+	-3.3444	-0.2323	83.6233	-2.9841	0.8396	83.0675
	MSE =	524.8799		MSE =	518.0694	
Fat (g)						
Initial						
<157.5	-1.5788	-6.6017	84.4604	-1.1364	-5.4341	85.2141
157.5-162.5	-0.4412	-6.9401*	85.5945	-0.5083	-6.6468*	85.5604
162.6-167.5	-1.8593	2.7240	86.9969	-1.0263	4.0294	85.8638
167.6+	0.7715	-4.5499	84.5296	0.8014	-4.1223	83.5434
	MSE =	465.8301		MSE =	459.9028	
Followup						
<157.5	-0.6522	-2.5525	81.1392	-0.1809	-1.8967	82.3385
157.5-162.5	1.0781	-4.2461	81.9634	0.8125	-3.6217	81.9905
162.6-167.5	-4.3590	-9.4187*	87.2194	-3.4575	-7.3025	85.7672
167.6+	-0.9052	0.2979	84.7804	-0.5958	2.1547	83.3320
	MSE =	437.7255		MSE =	423.7021	

(continued)

Table V-B-7 (continued)

Maternal Height (cm)	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Carbohydrate (g)						
Initial						
<157.5	1.7684	21.1481*	233.9034	1.7521	18.8758	231.3728
157.5-162.5	0.6455	15.9561	230.9421	1.7035	15.5746	230.3171
162.6-167.5	4.1567	-4.3713	226.1752	3.0821	-6.0863	227.9566
167.6+	2.7691	14.2900	228.8173	3.6127	12.9407	230.4062
	MSE =	3555.397		MSE =	3522.472	
Followup						
<157.5	-1.9417	0.9038	245.2213	-3.2130	-1.0049	242.7592
157.5-162.5	-1.1307	9.5333	240.5615	-0.6359	7.8417	240.6094
162.6-167.5	9.7909	28.9124*	227.4955	7.3324	24.4012*	230.8613
167.6+	6.5652	-3.3956	229.2463	5.4984	-8.8719	233.0530
	MSE =	3595.995		MSE =	3532.56	
Calcium (mg)						
Initial						
<157.5	0.4652	-163.8660*	949.7469	26.2989	-122.0885	921.3329
157.5-162.5	47.5303	9.4376	904.6796	81.9316*	58.4189	880.6806
162.6-167.5	-4.0819	-145.1027	981.3768	20.3474	-121.2165	956.5036
167.6+	11.0784	52.3237	954.2847	50.7173	87.3862	922.6242
	MSE =	253033.6		MSE =	240879.6	
Followup						
<157.5	105.8921*	89.8486	876.4733	130.5001**	122.9326	856.2235*
157.5-162.5	84.4410*	111.7990	901.7300	116.5173**	150.3240*	876.0372
162.6-167.5	24.8739	33.0012	1001.2599	47.1445	46.5800	980.7740
167.6+	19.8158	54.2274	973.1733	53.0010	82.7495	943.0545
	MSE =	224203.1		MSE =	217268.2	
Iron (mg)						
Initial						
<157.5	0.4185	-0.6076	14.5985	0.2512	-0.9127	14.5396
157.5-162.5	0.9443	1.3505	13.4791	0.7816	1.0770	13.6120*
162.6-167.5	-1.0200	-1.4485	15.3708	-1.2534	-1.8192	15.6804
167.6+	-0.2949	-0.9125	14.3736	-0.6161	-1.0276	14.8053
	MSE =	54.94391		MSE =	54.53921	
Followup						
<157.5	2.9182**	3.2788	14.2276	2.7041*	3.3969	14.2598
157.5-162.5	2.3945**	3.0779	14.2921	2.2784*	3.1839	14.4035
162.6-167.5	2.3706	6.2857**	15.0977	2.3295	6.0078**	15.2061
167.6+	1.5762	0.3425	15.9457	1.7489	0.4331	15.8509
	MSE =	132.6155		MSE =	132.0493	
Magnesium (mg)						
Initial						
<157.5	13.3882	7.9485	250.1447	15.8832	10.0077	246.5404
157.5-162.5	0.1313	2.2020	257.6713	5.9657	8.3420	253.5572
162.6-167.5	6.1664	-18.4789	254.4359	10.7546	-18.4345	250.6659
167.6+	-3.1252	-16.5000	266.6000	1.2008	-12.3133	263.4923
	MSE =	8167.343		MSE =	7900.468	

(continued)

Table V-B-7 (continued)

Maternal Height (cm)	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Followup						
<157.5	6.1204	-4.9862	264.7604	8.2533	-1.2603	261.6727
157.5-162.5	9.5481	-0.2411	255.2213	15.3940*	6.0413	250.8445
162.6-167.5	6.2276	6.1014	261.6717	8.0917	6.3457	260.4385
167.6+	19.0432*	-1.1446	247.1530	22.7806**	0.1162	244.3062
	MSE =	6974.25		MSE =	6754.371	
Phosphorus (mg)						
Initial						
<157.5	3.2174	-145.6076*	1358.1488	18.0106	-119.8598	1334.6528
157.5-162.5	25.4299	-50.3575	1314.5308	46.2600	-17.8404	1300.2510
162.6-167.5	-35.0319	-62.2441	1386.7814	-22.8762	-59.9033	1377.4510
167.6+	-45.4082	-23.4090	1381.0355	-23.4348	1.0293	1367.9201
	MSE =	152933.8		MSE =	147018.5	
Followup						
<157.5	74.7655*	43.8772	1304.4733	93.6874**	69.8857	1277.6394
157.5-162.5	70.5469*	74.2012	1291.1727	92.4038**	104.3468	1274.5706
162.6-167.5	19.0486	7.4998	1363.8915	29.7008	9.5607	1359.4346
167.6+	1.2256	45.5472	1367.3872	19.0465	55.6250	1357.1747
	MSE =	134462.1		MSE =	129717.3	
Vitamin A (IU)						
Initial						
<157.5	140.1175	-522.8514	6176.4671	-7.2841	-616.2207	6274.9542
157.5-162.5	1159.9329	147.2434	4960.8363	1209.8486	164.8170	4958.3226
162.6-167.5	799.0393	-1031.9284	6008.0913	823.9923	-1517.9604	6033.6325
167.6+	-840.1880	-248.2788	6305.8218	-847.8526	-98.8739	6241.9634
	MSE =	79571789		MSE =	78922758	
Followup						
<157.5	1830.5793*	1079.3237	5088.3824	1795.0860*	1088.3336	5255.3288
157.5-162.5	-358.1555	-828.8572	6685.6712	-266.7255	-930.7549	6617.1609
162.6-167.5	837.4730	2010.5135	6179.2345	1062.1704	1721.5237	5973.0042
167.6+	-529.3361	1103.5305	7921.1947	-434.4692	1262.0129	7692.3745
	MSE =	77078989		MSE =	76228721	
Thiamin (mg)						
Initial						
<157.5	0.0506	0.0247	1.5256	0.0403	0.0068	1.5053
157.5-162.5	0.1710**	0.2791*	1.3517	0.1629**	0.2651*	1.3590
162.6-167.5	-0.0017	-0.1209	1.5254	-0.0156	-0.1529	1.5528
167.6+	-0.0356	-0.0875	1.4574	-0.0547	-0.1050	1.4950
	MSE =	0.5480224		MSE =	0.5429508	
Followup						
<157.5	0.2246*	0.3054	1.5044	0.2001*	0.3051	1.5042
157.5-162.5	0.3470**	0.3311*	1.3929	0.3345**	0.3382*	1.4040
162.6-167.5	0.2135	0.5260*	1.5611	0.1861	0.4816*	1.5968
167.6+	0.2745*	0.3048	1.4929	0.2749*	0.3128	1.5017
	MSE =	1.045566		MSE =	1.038219	

(continued)

Table V-B-7 (continued)

Maternal Height (cm)	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Riboflavin (mg)						
Initial						
<157.5	0.0141	-0.2080	2.0326	0.0418	-0.1632	1.9961
157.5-162.5	0.2626**	0.2728	1.8201	0.2966**	0.3254	1.7955
162.6-167.5	-0.0544	-0.3993	2.1497	-0.0355	-0.3965	2.1359
167.6+	-0.1320	-0.0637	2.0813	-0.0960	0.0020	2.0546
	MSE =	1.334261		MSE =	1.321404	
Followup						
<157.5	0.3726**	0.2455	1.9269	0.3797**	0.3132	1.9189
157.5-162.5	0.1980	0.2800	2.0364	0.2137	0.3325	2.0263
162.6-167.5	0.2080	0.6622*	2.1829	0.2326	0.6570*	2.1596
167.6+	0.2021	0.3181	2.2229	0.2479	0.3557	2.1769
	MSE =	2.037446		MSE =	2.021892	
Niacin (mg)						
Initial						
<157.5	0.1289	0.3810	19.2120	0.0234	0.1297	19.3254
157.5-162.5	1.1740	3.7776*	18.3030	0.9765	3.4762*	18.4281*
162.6-167.5	-1.2713	-2.9320	20.7468	-1.2872	-3.2312	20.8360
167.6+	-1.9204	-2.9095	20.6502	-2.1757*	-2.6482	20.8338
	MSE =	98.10081		MSE =	97.30515	
Followup						
<157.5	2.3963	2.2410	19.3705	2.1913	2.4604	19.5703
157.5-162.5	2.1865*	2.5014	18.9542	2.0314	2.4695	19.0750
162.6-167.5	1.9668	6.4493*	20.1643	2.1721	6.2709*	20.0172
167.6+	1.6065	1.9904	20.9035	1.8598	2.2821	20.6092
	MSE =	183.8808		MSE =	183.2533	
Vitamin B6 (mg)						
Initial						
<157.5	0.0449	0.0196	1.6300	0.0227	-0.0175	1.6258
157.5-162.5	0.0428	0.2984*	1.5605	0.0311	0.2765*	1.5706
162.6-167.5	-0.0897	-0.2177	1.6788	-0.1038	-0.2687	1.7034
167.6+	-0.1744	-0.1278	1.6868	-0.1931	-0.1233	1.7211
	MSE =	0.8740291		MSE =	0.8675303	
Followup						
<157.5	0.2534*	0.1125	1.6689	0.2523*	0.1318	1.6488
157.5-162.5	0.2235*	0.1468	1.6189	0.2319*	0.1447	1.6159
162.6-167.5	0.2572	0.6930**	1.6885	0.2710*	0.6347*	1.6892
167.6+	0.1832	0.0358	1.7139	0.2252	0.0614	1.6878
	MSE =	1.665402		MSE =	1.65256	
Vitamin B12 (mcg)						
Initial						
<157.5	-1.2071	-3.1387	6.7379	-1.1302	-3.0802	6.6968
157.5-162.5	1.1345	0.2222	4.1864	1.3468	0.3965	4.0376
162.6-167.5	-0.2036	-2.6386	6.4002	-0.0168	-2.6782	6.2738
167.6+	-2.2409*	-1.9996	7.0377	-2.1238	-1.8121	6.8351
	MSE =	105.6661		MSE =	105.9274	

(continued)

Table V-B-7 (continued)

Maternal Height (cm)	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Followup						
<157.5	2.2545	1.1260	4.2215	2.2969*	1.3003	4.2336
157.5-162.5	-0.0081	0.6119	5.7457	0.0683	0.7034	5.7074
162.6-167.5	1.3924	2.2860	5.5952	1.7082	2.0661	5.2946
167.6+	-0.3080	3.6887	7.9472	-0.2239	3.7729	7.8049
	MSE =	145.2616		MSE =	144.9842	
Vitamin C (mg)						
Initial						
<157.5	12.7648	18.3881	120.5894	8.0434	11.3642	120.9014
157.5-162.5	0.9136	24.9740	124.6957	2.4402	25.0778	123.9965
162.6-167.5	22.7299	-3.3335	104.8406	22.4014	-11.0370	107.1140
167.6+	-6.7266	-12.6021	121.8311	-6.2092	-10.7026	123.6303
	MSE =	12753.14		MSE =	12364.88	
Followup						
<157.5	28.7243*	51.1141*	119.3019	28.3688*	49.6269*	116.6999
157.5-162.5	17.9848	9.2395	119.6648	20.1563*	8.4373	118.5646
162.6-167.5	33.6216*	19.9745	113.1851	32.7276*	13.4478	115.9425
167.6+	33.9477*	13.3071	109.3707	32.6341*	13.4535	111.3119
	MSE =	15603.45		MSE =	15402.59	
Intake from Potential WIC Foods						
Calories (kcal)						
Initial						
<157.5	82.7429*	-32.6813	373.0742	86.5867**	-35.1949	344.6087
157.5-162.5	6.6695	-26.1063	399.2224	17.1669	-11.6250	393.4306
162.6-167.5	77.9809*	35.1561	361.1019	75.7937*	28.3893	372.5440
167.6+	15.8098	-15.6409	401.7162	20.5498	-12.3131	414.8407
	MSE =	121182.7		MSE =	116586.6	
Followup						
<157.5	117.6844**	160.8586**	374.0555	133.1690**	172.8672**	342.5670
157.5-162.5	123.5215**	156.7484**	340.7211	146.1386**	167.0021**	325.0843
162.6-167.5	82.0167*	128.4465	410.7350	86.9622*	122.6379	414.9342
167.6+	115.3915**	131.6043*	352.5926	129.2564**	120.5448	352.3792
	MSE =	113327.9		MSE =	109564.8	
Protein (g)						
Initial						
<157.5	3.8316*	-2.6078	20.1189	4.1374*	-2.4602	18.6065
157.5-162.5	0.1707	-2.8979	21.5282	0.7691	-1.9327	21.1863
162.6-167.5	3.3597	1.3764	20.0244	3.2448	1.1733	20.5482
167.6+	1.2733	-0.8110	21.3532	1.6018	-0.5289	21.9258
	MSE =	351.9412		MSE =	337.6016	
Followup						
<157.5	4.9811**	7.0982*	19.9307	5.9583**	7.7842**	18.1981
157.5-162.5	5.4814**	6.8489**	18.2637	6.7800**	7.4729**	17.3370
162.6-167.5	2.7919	4.1790	22.0210	3.1289	3.9856	22.1616
167.6+	4.0280*	4.6564	19.7947	4.8225**	4.0387	19.7007
	MSE =	305.7503		MSE =	294.8036	

(continued)

Table V-B-7 (continued)

Maternal Height (cm)	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Fat (g)						
Initial						
<157.5	1.9082	-4.1039	19.8853	2.4476	-3.8551	18.4112
157.5-162.5	0.5561	-2.8192	20.0603	1.1139	-2.1352	19.7446
162.6-167.5	2.9709	2.0261	18.9310	3.0913	2.1033	19.2185
167.6+	0.8198	0.8007	20.3622	1.2100	0.9578	20.6679
	MSE =	359.304		MSE =	349.6231	
Followup						
<157.5	3.9673*	5.0185	18.7751	4.7971**	5.6272*	17.4530
157.5-162.5	3.9713**	5.2509*	17.4501	5.0053**	5.5493*	16.7321
162.6-167.5	2.4607	4.1889	20.4281	2.7493	4.2345	20.4497
167.6+	3.5978	6.8496*	18.2352	4.2524*	6.4681	18.0615
	MSE =	302.0153		MSE =	294.951	
Carbohydrate (g)						
Initial						
<157.5	12.9857**	3.8599	29.0223	12.4364**	2.5662	26.7143
157.5-162.5	0.3917	3.0010	33.9483	1.1924	4.1952	33.5299
162.6-167.5	9.9025*	2.9619	28.2923	9.2546*	1.3732	29.9338
167.6+	1.0703	-4.6029	34.0859	1.1264	-4.3324	36.0490
	MSE =	1381.06		MSE =	1329.081	
Followup						
<157.5	16.5886**	21.9896**	31.9794	17.7282**	23.0907**	28.5146
157.5-162.5	17.1574**	21.1185**	28.2513	19.2826**	22.5913**	26.8259
162.6-167.5	13.0974**	19.5822*	35.3669	13.3103**	18.1253*	36.3354
167.6+	17.6284**	13.7342	27.8872	18.8808**	12.4349	28.4070
	MSE =	1705.746		MSE =	1655.333	
Calcium (mg)						
Initial						
<157.5	67.8488	-114.7539	520.0393	93.5543	-87.3774	481.8410
157.5-162.5	-9.3525	-50.3587	558.6615	39.5917	-9.3686	537.7814
162.6-167.5	74.2615	-45.0986	547.0191	96.9626	-23.4668	530.8738
167.6+	-17.4957	-74.4489	620.3779	15.6705	-44.9911	601.0451
	MSE =	309630		MSE =	298694.6	
Followup						
<157.5	130.6019**	123.2484	512.9790	156.6205**	151.1992	482.2081
157.5-162.5	125.1615**	173.6107*	487.9239	158.5202**	197.5117**	462.6243
162.6-167.5	59.1755	94.3470	606.9319	75.8136	101.5737	596.2904
167.6+	108.6263*	116.3358	537.2867	139.2472**	118.0303	516.4313
	MSE =	259647.6		MSE =	252009.7	
Iron (mg)						
Initial						
<157.5	1.6306**	0.2843	1.8166	1.5091*	-0.0321	1.6353
157.5-162.5	0.3639	0.8908	2.2715	0.2468	0.6881	2.3719
162.6-167.5	0.6247	-0.2152	2.2415	0.3085	-0.4871	2.6239
167.6+	1.1040	-0.0196	1.5954	0.7503	-0.1849	2.1468
	MSE =	40.6253		MSE =	40.00385	

(continued)

Table V-B-7 (continued)

Maternal Height (cm)	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Folllowup						
<157.5	3.9103**	4.9307**	1.8028	3.9315**	5.1489**	1.6064
157.5-162.5	3.8248**	4.0917*	1.7920	4.0726**	4.3610*	1.6228
162.6-167.5	3.5929**	7.8853**	2.6302	3.7513**	7.8320**	2.5598
167.6+	3.0151*	3.2532	2.5005	3.4078**	3.3874	2.2621
	MSE =	127.6751		MSE =	126.8089	
Magnesium (mg)						
Initial						
<157.5	26.0263**	2.8648	68.1504	26.0981**	2.4653	62.0971
157.5-162.5	-1.1883	-4.2005	81.5041	1.2260	0.2127	80.0940
162.6-167.5	19.1168*	5.6514	68.7347	18.1959*	4.2481	71.5861
167.6+	10.0406	1.4252	75.4015	11.4143	2.4978	78.5313
	MSE =	6415.029		MSE =	6120.984	
Folllowup						
<157.5	22.8444**	27.6422*	78.6871	26.3935**	30.5116*	70.4945
157.5-162.5	29.3693**	35.6412**	67.7014	34.1557**	38.3196**	64.4466
162.6-167.5	13.7735	27.2266	85.5208	13.6325	24.6575	87.8706
167.6+	27.8742**	25.2497	68.1583	30.2657**	21.8052	69.6368
	MSE =	6166.018		MSE =	5961.365	
Phosphorus (mg)						
Initial						
<157.5	79.8444	-89.8256	506.7345	92.5458*	-77.0774	471.6221
157.5-162.5	6.5511	-66.7491	539.8044	24.7222	-37.3735	528.4261
162.6-167.5	80.3107	9.0527	513.3386	86.9305	15.0704	514.7131
167.6+	9.1106	-32.7417	561.9562	27.1068	-17.4665	562.6698
	MSE =	242566.9		MSE =	234210	
Folllowup						
<157.5	130.3259**	150.6585*	497.3178	154.5073**	171.2705*	460.1581
157.5-162.5	136.4215**	174.9314*	459.4199	167.0287**	193.1980**	437.1625
162.6-167.5	66.3757	116.0756	563.7553	76.2373	117.2474	562.9557
167.6+	104.7140*	126.3425	506.6365	126.2435**	116.9401	498.6531
	MSE =	206130.2		MSE =	199753.6	
Vitamin A (IU)						
Initial						
<157.5	337.6074*	-149.0490	939.5085	358.9840*	-156.1420	871.2516
157.5-162.5	212.1300	422.0700	986.7311	229.7818	427.6041	975.5859
162.6-167.5	162.7280	-198.0606	1108.9171	161.6442	-202.3733	1123.6540
167.6+	72.9041	-190.2609	1162.1891	59.5328	-176.4554	1219.2468
	MSE =	3002440		MSE =	2976807	
Folllowup						
<157.5	1064.0662**	1272.7077*	890.4494	1090.8287**	1352.3015**	852.6943
157.5-162.5	997.7375**	1029.5935*	916.2297	1094.5662**	1113.2987*	846.0214
162.6-167.5	944.8421**	2217.4074*	1234.5277	1019.4142**	2237.3080**	1176.7461
167.6+	883.5713**	1058.4708	1165.8857	1031.2398**	1164.2369*	1035.8422
	MSE =	9397599		MSE =	9316931	

(continued)

Table V-B-7 (continued)

Maternal Height (cm)	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Thiamin (mg)						
Initial						
<157.5	0.1447**	0.0175	0.2446	0.1430**	0.0021	0.2216
157.5-162.5	0.0522	0.1461	0.2848	0.0540	0.1426	0.2846
162.6-167.5	0.0700	-0.0437	0.2919	0.0605	-0.0569	0.3086
167.6+	0.0404	-0.0379	0.3050	0.0304	-0.0395	0.3347
	MSE =	0.2877694		MSE =	0.2840589	
Followup						
<157.5	0.3413**	0.4183**	0.2618	0.3454**	0.4394**	0.2414
157.5-162.5	0.3284**	0.3463*	0.2549	0.3569**	0.3704**	0.2353
162.6-167.5	0.3090**	0.7089**	0.3501	0.3236**	0.7021**	0.3444
167.6+	0.3028**	0.3284	0.2997	0.3415**	0.3489	0.2745
	MSE =	0.8834138		MSE =	0.8761644	
Riboflavin (mg)						
Initial						
<157.5	0.1986*	-0.1170	0.6804	0.2278**	-0.0974	0.6211
157.5-162.5	0.0723	0.1190	0.7532	0.1006	0.1544	0.7345
162.6-167.5	0.0887	-0.1249	0.7948	0.1010	-0.1084	0.7934
167.6+	0.0425	-0.0882	0.8300	0.0600	-0.0659	0.8405
	MSE =	0.8013747		MSE =	0.7813132	
Followup						
<157.5	0.4232**	0.4782*	0.7078	0.4512**	0.5289**	0.6700
157.5-162.5	0.4191**	0.4593*	0.6842	0.4737**	0.5076**	0.6442
162.6-167.5	0.3288*	0.8348**	0.8855	0.3588**	0.8436**	0.8649
167.6+	0.3763**	0.4435	0.7871	0.4466**	0.4707*	0.7319
	MSE =	1.53354		MSE =	1.506151	
Niacin (mg)						
Initial						
<157.5	1.3597*	0.2667	0.8608	1.3866*	0.1637	0.7128
157.5-162.5	0.6390	1.6834	1.3180	0.6211	1.5819	1.3280
162.6-167.5	0.5003	-0.7005	1.5692	0.4328	-0.6985	1.6665
167.6+	1.0533	0.0501	1.2071	0.9082	0.0278	-1.4671
	MSE =	38.48196		MSE =	38.27901	
Followup						
<157.5	3.5383**	4.0352*	1.2019	3.5319**	4.3271*	1.1837
157.5-162.5	3.6932**	3.8937*	1.2014	3.9213**	4.1201*	1.0415
162.6-167.5	3.3971**	8.5759**	2.2420	3.6059**	8.6528**	2.0463
167.6+	3.4016**	4.2017	1.7729	3.8654**	4.6135*	1.3600
	MSE =	141.2945		MSE =	140.6902	
Vitamin B6 (mg)						
Initial						
<157.5	0.1877**	0.0051	0.2328	0.1843**	-0.0162	0.2039
157.5-162.5	0.0352	0.1318	0.3109	0.0327	0.1247	0.3141
162.6-167.5	0.0593	-0.0497	0.3104	0.0371	-0.0701	0.3399
167.6+	0.0885	0.0085	0.2775	0.0672	-0.0052	0.3249
	MSE =	0.4497857		MSE =	0.4433817	

(continued)

Table V-B-1 (continued)

Maternal Height (cm)	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Followup						
<157.5	0.3903**	0.4434*	0.2808	0.3895**	0.4698*	0.2593
157.5-162.5	0.4134**	0.4209*	0.2503	0.4417**	0.4485*	0.2311
162.6-167.5	0.3629**	0.8728**	0.3705	0.3744**	0.8668**	0.3685
167.6+	0.3474**	0.3917	0.3214	0.3922**	0.4144	0.2951
	MSE =	1.495631		MSE =	1.484406	
Vitamin B12 (mcg)						
Initial						
<157.5	0.5196*	-0.3067	1.7151	0.5826*	-0.2789	1.5638
157.5-162.5	0.2776	0.4851	1.8283	0.3252	0.5315	1.7995
162.6-167.5	0.1584	-0.3511	2.0364	0.1666	-0.3331	2.0569
167.6+	0.1228	-0.2248	2.0541	0.1268	-0.2016	2.1287
	MSE =	6.242503		MSE =	6.118933	
Followup						
<157.5	1.3349**	1.5646*	1.7075	1.3969**	1.6988**	1.6210
157.5-162.5	1.2827**	1.3323*	1.6971	1.4288**	1.4599*	1.5909
162.6-167.5	1.0753*	2.7558**	2.2275	1.1610**	2.7834**	2.1663
167.6+	1.1319**	1.3786	2.0290	1.3366**	1.4767	1.8612
	MSE =	15.54763		MSE =	15.34128	
Vitamin C (mg)						
Initial						
<157.5	15.7680	12.9275	38.7038	13.6368	9.1223	36.8542
157.5-162.5	9.4482	28.9543*	36.4883	10.2520	28.7006*	36.1474
162.6-167.5	20.1593*	8.4222	30.0930	20.3989*	4.4151	31.6758
167.6+	-9.7272	-13.8484	51.4413	-9.6208	-13.3189	53.9991
	MSE =	7792.742		MSE =	7628.425	
Followup						
<157.5	36.7928**	54.4130**	36.5050	37.1052**	53.6845**	31.9859
157.5-162.5	27.4392**	32.8161*	35.6020	30.8037**	33.6167*	33.5258
162.6-167.5	34.6067**	50.6161*	40.8220	35.1002**	46.3141*	42.7323
167.6+	40.9774**	35.7508	28.7147	42.5956**	35.8994	29.5622
	MSE =	11043.9		MSE =	10885.45	

(continued)

Table V-B-7 (continued)

Maternal Height (cm)	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
<u>Number of Subjects -</u>						
	WIC Status					
<u>Maternal Height (cm)</u>	<u>WIC</u>	<u>WIC/Control</u>	<u>Control</u>	<u>Total</u>		
<157.5	690	53	127	870		
162.6-167.5	588	34	104	726		
157.5-162.5	936	58	193	1,187		
167.6+	548	36	106	690		
Total	2,762	181	530	3,473		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/Control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control group and differences from Control group means for WC and WIC/Control groups.

^bInitial interviews controlled for duration of gestation at registration. Followup interviews controlled for initial nutrient intake and duration of gestation.^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews adjusted for initial nutrient intake, duration of gestation, and maternal characteristics at registration into study. See Appendix V-A-3 for full covariate list.

Table V-B-8

Mean Daily Dietary Intake at Initial and Followup Interviews by WIC Status^a and Cigarette Smoking

Cigarettes per day	Unadjusted ^b			Fully adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Total Intake Per Day						
Calories (KCAL)						
Initial						
0	18.0954	12.2533	1924.3574	35.8144	34.7975	1900.5737
1-5	118.4277	164.7256	1992.7231	106.8091	97.6626	1987.0458
6-14	-132.9943	233.3475	2236.6533**	-119.8324	205.7076	2244.4027***
15+	-148.2048	148.9111	2124.0068	-157.2114	149.9738	2169.8852*
	MSE =	829262.8		MSE =	809322	
Followup						
0	49.8037	116.9846	1956.9168	76.6737	133.3662	1922.5781
1-5	193.3844	207.6942	1842.4363	189.8166	102.1830	1846.1673
6-14	-14.9088	100.7147	1987.9963	27.9093	53.9828	1983.9096
15+	267.8556 *	268.7123	1786.3079	324.5622 **	314.5085	1772.7679
	MSE =	678071.6		MSE =	659059.9	
Protein (g)						
Initial						
0	0.7005	-1.8271	77.9637	0.9536	-0.9939	77.3129
1-5	1.8855	-7.3829	83.3891	1.1589	-10.2625	83.4735
6-14	-5.4899	-0.2457	87.8255*	-5.5447	-0.5316	88.7167*
15+	-4.1186	8.2194	81.8894	-5.2601	8.3626	84.4181
	MSE =	1694.073		MSE =	1654.69	
Followup						
0	1.6919	4.8121	78.6265	3.3775	6.3223	76.4414
1-5	9.3655	6.9704	73.0580	9.7937	1.7157	72.7419
6-14	0.4446	6.8163	78.4041	2.6485	5.9602	78.4582
15+	11.2739 *	9.0253	70.2389	14.3546 **	12.5011	69.6963
	MSE =	1608.695		MSE =	1553.61	
Fat (g)						
Initial						
0	1.2237	-0.7748	79.7109	2.2534	0.9976	78.5764
1-5	6.3302	9.1082	86.2687	6.7179	7.4726	85.2551
6-14	-11.8590 *	-10.7183	102.7998***	-11.3049 *	-11.8693	102.9058***
15+	-7.1290	-3.1365	94.5886*	-7.4248	-2.4406	95.9865**
	MSE =	2360.613		MSE =	2306.214	
Followup						
0	0.8916	2.3923	80.5349	2.2523	4.1738	79.3247
1-5	9.7613	2.7214	75.9734	10.2062	-0.8065	75.3903
6-14	1.8806	9.6884	82.4253	4.3602	8.0878	80.7311
15+	10.6663	8.7446	76.3690	13.3845 *	11.3716	74.3570
	MSE =	1960.882		MSE =	1914.547	

(continued)

Table V-B-8 (continued)

Cigarettes per day	Unadjusted ^b			Fully adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Carbohydrate (g)						
Initial						
0	1.1292	5.7672	228.4826	3.3443	6.8431	225.4687
1-5	16.8231	34.1222	220.3692	14.1235	23.9712	220.9366
6-14	-1.4625	82.3630 **	244.1783	1.1971	78.5923 *	244.4917
15+	-18.1442	34.4086	241.6517	-18.3687	33.5135	247.0965
	MSE =	12999.5		MSE =	12779.35	
Followup						
0	9.3967	18.3223	233.0749	11.8091	17.4137	228.9356
1-5	16.5536	36.7232	222.8976	14.7948	23.5470	225.1104
6-14	-10.1815	-3.3895	240.2257	-7.0012	-10.5357	242.9763
15+	33.6545 *	40.9549	207.3758	38.6662 **	43.6274	209.0993
	MSE =	11061.12		MSE =	10817.9	
Calcium (mg)						
Initial						
0	54.6152	15.7739	888.5109	90.1001 *	58.2336	867.3223
1-5	5.8579	-259.1426	950.1230	60.0736	-211.1463	917.1141
6-14	-88.4873	171.4454	1067.6055*	-56.8061	180.6620	1029.0245*
15+	-70.6187	-211.1969	1068.2266	-58.3957	-157.9772	1013.0460
	MSE =	433374		MSE =	417898.2	
Followup						
0	76.6004 *	102.6897	921.1920	112.5730 **	134.5818 *	891.2882
1-5	173.8237	331.8083 *	786.9761	220.6418 *	326.2000 *	765.6739
6-14	-37.8963	134.2549	1024.7241	-4.0536	131.4011	1002.8484
15+	292.0797 **	280.3099	744.6517*	334.6337 **	338.0521 *	687.8327**
	MSE =	344093.2		MSE =	333746.5	
Iron (mg)						
Initial						
0	0.4695	-1.1318	14.1374	0.4024	-1.3087	14.0626
1-5	0.5140	-0.9034	14.3535	0.2868	-1.6752	14.5508
6-14	-1.2923	8.8226 **	15.6472	-1.3923	8.7791 **	16.0018
15+	-0.8578	2.3888	14.1328	-1.0571	2.4845	14.7048
	MSE =	91.54255		MSE =	90.87529	
Followup						
0	2.9738 **	3.7523 **	14.2894	3.1135 **	4.1488 **	14.0774
1-5	3.4753	7.2664 *	13.8566	3.4073	5.6714	13.8346
6-14	1.9684	7.7748 *	14.8446	2.2433	7.2976 *	14.9124
15+	3.7068 *	2.9741	13.4390	4.3832 *	3.3908	13.0947
	MSE =	178.2386		MSE =	175.4243	
Magnesium (mg)						
Initial						
0	3.9897	-3.6495	252.9784	10.3064	1.6308	247.0414
1-5	8.2203	-9.6658	250.0954	15.5007	-11.0576	246.8336
6-14	-11.9342	52.7199	277.0291	-8.2701	52.7706	276.1199
15+	0.9523	13.7467	270.4054	2.3459	19.9177	267.9837
	MSE =	20627.34		MSE =	20174.6	

(continued)

Table V-B-8 (continued)

Cigarettes per day	Unadjusted ^b			Fully adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
0	20.0780 *	12.8350	250.9973	27.1768 **	17.5373	243.5753
1-5	26.3650	28.2394	239.2323	30.8878	19.3871	238.8279
6-14	-12.3381	29.6679	268.4218	-5.6547	27.6441	267.2946
15+	43.6824 *	38.4645	224.5935	52.7372 **	49.0916	217.7712
	MSE =	16891.13		MSE =	16355.67	
Phosphorus (mg)						
Initial						
0	28.6360	-29.3238	1295.8679	56.5607	3.2758	1271.7931
1-5	22.8214	-152.4019	1353.2885	52.1730	-152.0656	1337.5254
6-14	-153.9984	135.9884	1529.0025**	-130.6883	142.7444	1514.0499**
15+	-99.8889	-34.7738	1468.8060	-102.3303	-3.3166	1459.2370*
	MSE =	508411.6		MSE =	495378.9	
Followup						
0	73.6657	118.0899	1301.5974	105.0414 **	141.9168 *	1267.6346
1-5	191.3963 *	297.2341	1173.7897	220.7682 *	245.3921	1161.5993
6-14	-32.1927	126.0344	1380.1126	2.2723	111.0688	1374.8012
15+	319.1834 **	286.3950	1110.2696*	368.5974 **	343.3736 *	1076.3524*
	MSE =	412223.7		MSE =	397638.1	
Vitamin A (IU)						
Initial						
0	391.2166	-953.6475	5996.5193	485.6301	-855.3702	5862.9790
1-5	2142.2388	1434.4782	4395.5375	1953.1119	637.3241	4431.5102
6-14	658.0060	2561.7050	5635.6986	701.2929	2708.0256	5736.1103
15+	-1410.3590	496.5043	5934.8892	-1537.4578	322.2096	6268.6362
	MSE =	85020986		MSE =	84397584	
Followup						
0	308.9610	1048.2926	6599.1153	466.3720	1137.8690	6356.6343
1-5	936.0472	996.5788	5573.3238	945.0200	-145.5737	5526.5473
6-14	-407.3359	1490.2274	6863.2105	-104.4514	1776.6939	6881.8252
15+	2851.5810 *	613.9396	4435.6410	3180.8407 **	921.4529	4491.2173
	MSE =	83825772		MSE =	82579819	
Thiamin (mg)						
Initial						
0	0.1402 *	0.0045	1.3913	0.1450 *	0.0032	1.3724
1-5	0.0822	0.1763	1.4772	0.0543	0.0725	1.4939
6-14	-0.2268	0.5720 *	1.7502**	-0.2164	0.5585 *	1.7703**
15+	-0.0588	0.3778	1.4031	-0.0717	0.3785	1.4682
	MSE =	0.987171		MSE =	0.9733869	
Followup						
0	0.3461 **	0.3719 **	1.4331	0.3554 **	0.4015 **	1.4142
1-5	0.2866	0.8758 **	1.4430	0.2686	0.7337 *	1.4511
6-14	0.1937	0.7703 *	1.5028	0.2031	0.7148 *	1.5276
15+	0.4312 **	0.4075	1.2824	0.4712 **	0.4415	1.2747
	MSE =	1.470185		MSE =	1.443138	

(continued)

Table V-B-8 (continued)

Cigarettes per day	Unadjusted ^b			Fully adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Riboflavin (mg)						
Initial						
0	0.1443	-0.0703	1.9054	0.1911 *	-0.0143	1.8686
1-5	0.0198	-0.3163	2.0026	0.0714	-0.3074	1.9685
6-14	-0.1813	0.8952 *	2.2833*	-0.1404	0.9268 *	2.2498*
15+	-0.1606	0.1340	2.1047	-0.1669	0.2045	2.0828
	MSE =	2.14617		MSE =	2.120439	
Followup						
0	0.3505 **	0.4745 **	1.9800	0.3866 **	0.5455 **	1.9472
1-5	0.4588	1.0391 *	1.7817	0.5142 *	0.9164 *	1.7352
6-14	-0.0579	0.8512	2.3122	0.0005	0.8175	2.2872
15+	0.5509 *	0.1322	1.9229	0.6399 **	0.2121	1.8318
	MSE =	2.850265		MSE =	2.795463	
Niacin (mg)						
Initial						
0	0.3058	-0.9256	19.0380	0.3437	-0.8512	18.8577
1-5	-1.3814	-1.4797	21.0297	-1.7387	-2.6375	21.1496
6-14	-1.9703	8.4602 *	21.5450	-1.8713	8.3911 *	21.7432
15+	-0.9641	6.5251 *	18.7750	-1.1844	6.4320 *	19.5738
	MSE =	167.51		MSE =	164.8744	
Followup						
0	2.8734 **	3.5759 *	18.9935	3.1036 **	4.0844 *	18.6759
1-5	4.3797	9.1161 *	18.2989	4.3037	6.9735	18.0961
6-14	1.3593	10.3136 *	19.8289	1.9179	9.8652 *	19.7015
15+	3.8979	1.9600	18.1714	4.7987 *	2.5548	17.9181
	MSE =	258.8009		MSE =	254.6521	
Vitamin B6 (mg)						
Initial						
0	0.0150	-0.0967	1.6209	0.0149	-0.1040	1.6045
1-5	-0.0041	-0.1626	1.6144	-0.0368	-0.2890	1.6384
6-14	-0.2323	1.2011 **	1.7515	-0.2322	1.1888 **	1.7870
15+	-0.1501	0.4450	1.5970	-0.1662	0.4569	1.6634
	MSE =	1.380213		MSE =	1.366346	
Followup						
0	0.3121 **	0.2621	1.6101	0.3489 **	0.2972	1.5650
1-5	0.3433	0.7042	1.5259	0.3460	0.4950	1.5159
6-14	0.0717	0.7686	1.7804	0.1279	0.7088	1.7780
15+	0.4984 *	0.2397	1.3876	0.5920 **	0.3161	1.3486
	MSE =	2.212645		MSE =	2.169446	
Vitamin B12 (mcg)						
Initial						
0	-0.6839	-2.0267	6.1004	-0.4471	-1.8050	5.8904
1-5	0.5763	-1.6283	5.0402	0.8652	-1.8532	4.8007
6-14	0.0416	1.7987	5.6311	0.1161	1.8470	5.6319
15+	-0.4020	-1.3952	5.5144	-0.4589	-1.3284	5.5501
	MSE =	111.6592		MSE =	111.7055	

(continued)

Table V-B-8 (continued)

Cigarettes per day	Unadjusted ^b			Fully adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
0	0.8347	1.8092	5.8574	0.9454	2.0182	5.7304
1-5	1.5415	3.0127	3.9690	1.9776	2.3725	3.5930
6-14	-0.3785	6.0693	6.5267	-0.0591	6.2075	6.3946
15+	3.2968 *	0.7468	4.0986	3.6872 *	0.8429	3.8156
	MSE =	154.6448		MSE =	153.8526	
Vitamin C (mg)						
Initial						
0	9.9291	9.5972	124.0635	12.3729	11.0061	119.3191
1-5	29.0466	47.2889	107.3242	23.2828	30.4656	110.2700
6-14	-22.8470	14.9872	134.5801	-22.7053	12.2983	139.7359
15+	-5.8423	-0.6395	93.8526	-6.2518	-2.5604	104.3166
	MSE =	14832.41		MSE =	14554.52	
Followup						
0	31.1212 **	19.9281	121.1887	34.5279 **	20.6568	115.2893
1-5	22.4994	51.9017	107.6887	16.6036	36.3380	111.4425
6-14	33.4738 *	87.6808 *	93.8685	35.7734 *	87.8051 *	98.6103
15+	22.9886	20.9388	104.0883	25.2949	23.6074	111.9862
	MSE =	17379.42		MSE =	17194.32	
<u>Total Intake Adjusted for Caloric Intake</u>						
Protein (G)						
Initial						
0	0.0096	-2.2949	80.5937	-0.4099	-2.3187	80.8405
1-5	-2.6366	-13.6728 *	83.4086	-2.9073	-13.9805 *	83.7090
6-14	-0.4116	-9.1559	78.5307	-0.9827	-8.3628	79.1547
15+	1.5405	2.5333	76.8959	0.7249	2.6532	77.6930
	MSE =	485.117		MSE =	481.8721	
Followup						
0	-0.3252	-0.2884	80.7299	0.1956	0.5623	79.9823
1-5	0.8569	-4.3987	80.0157	1.4817	-5.2764	79.5704
6-14	1.3666	0.3365	77.9128	1.7426	1.6129	78.2353
15+	1.4694	-1.5411	77.7342	2.2862	0.2599	77.6744
	MSE =	526.0373		MSE =	519.7273	
Fat (g)						
Initial						
0	0.3579	-1.3610	83.0061	0.5418	-0.6654	83.0045
1-5	0.6643	1.2273	86.2931	1.6136	2.8055	85.5508
6-14	-5.4962 *	-21.8823 **	91.1539**	-5.5783 *	-21.6999 **	90.9027**
15+	-0.0385	-10.2608	88.3321	0.0881	-9.6077	87.5446
	MSE =	462.624		MSE =	458.0398	

(continued)

Table V-B-8 (continued)

Cigarettes per day	Unadjusted ^b			Fully adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
0	-1.4315	-3.3729	82.5400	-1.3660	-2.3263	83.0322
1-5	0.4546	-7.2930	83.7220	1.2593	-5.3638	82.8567
6-14	1.9704	0.0322	83.4860	2.3919	0.7971	81.8981
15+	-1.3680	-6.2712	86.6943	-1.3055	-5.6996	85.0479
	MSE =	436.7621		MSE =	423.5869	
Carbohydrate (g)						
Initial						
0	-0.8036	4.4584	235.8394	-0.4888	3.1188	235.3860
1-5	4.1736	16.5275	220.4238	2.6918	13.5184	221.5989
6-14	12.7428	57.4388 **	218.1783	14.0226 *	56.5757 **	217.6094
15+	-2.3142	18.5032	227.6836	-1.5426	17.4620	228.1897
	MSE =	3539.683		MSE =	3509.447	
Followup						
0	3.9572	6.9491	238.6897	3.4959	3.8802	238.2045
1-5	-3.4281	17.4984	236.9024	-5.0970	15.0857	239.0499
6-14	-5.1818	-3.2024	237.1705	-6.3624	-5.7279	240.2438
15+	6.0635	15.9730	227.9976	5.2994	13.4650	231.0537
	MSE =	3594.974		MSE =	3533.395	
Calcium (mg)						
Initial						
0	-46.1537	10.0443	920.7174	73.3182 *	41.9281	910.7410
1-5	-49.5187	-336.1682 *	950.3618	10.0249	-256.9090 *	920.0136
6-14	-26.2993	62.3324	953.7828	-0.6550	84.2714	911.3316
15+	-1.3183	-250.8276 *	1007.0773	15.2705	-228.2520	930.2705
	MSE =	252129.5		MSE =	240267.3	
Followup						
0	60.5641 *	54.6320	939.4458	87.6692 **	82.3218	923.7713
1-5	81.3498	196.8530	852.5039	137.5387	248.0597 *	826.2690
6-14	-27.1283	86.5924	1016.5287	-9.1702	107.9331	991.5180
15+	189.6676 **	128.1094	832.4522	210.6531 **	172.7319	770.2110
	MSE =	223906.7		MSE =	217124.4	
Iron (mg)						
Initial						
0	0.3485	-1.2137	14.5980	0.1614	-1.5428 *	14.6861
1-5	-0.2780	-2.0050	14.3569	-0.4319	-2.3324	14.5924
6-14	-0.4029	7.2622 **	14.0194	-0.5860	7.3949 **	14.3118
15+	0.1333	1.3930	13.2583	0.0007	1.4754	13.5162
	MSE =	54.47366		MSE =	54.24802	
Followup						
0	2.6017 **	2.6349 *	14.7469	2.4855 **	2.8531 *	14.8408
1-5	7.7427	5.1233	15.1164	1.7161	4.4318	15.0903
6-14	2.2000	7.6598 *	14.5895	2.0971	7.5633 *	14.7226
15+	1.7662	0.8287	14.8350	2.0109	0.9113	14.5633
	MSE =	132.6984		MSE =	132.1534	

(continued)

Table V-B-8 (continued)

Cigarettes per day	Unadjusted ^b			Fully adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Magnesium (mg)						
Initial						
0	1.7671	-5.1546	261.4384	5.8906	-2.6597	258.4663
1-5	-6.3260	-29.8988	250.1582	2.3313	-23.0993	247.5966
6-14	4.4013	24.0582	247.1302	6.5051	27.4071	245.1511
15+	19.1560	-4.5438	254.3428	21.7299	1.4261	246.2028
	MSE =	8118.741		MSE =	7873.076	
Followup						
0	14.2843 **	-2.2031	257.2439	18.6566 **	0.7927	253.6726
1-5	0.8352	-3.6684	256.5838	7.4239	2.0934	255.3629
6-14	-8.2280	18.9594	265.0204	-6.5043	23.3559	264.0669
15+	16.6689	3.9603	247.7866	19.4803	10.2296	240.6996
	MSE =	6950.086		MSE =	6746.131	
Phosphorus (mg)						
Initial						
0	16.7797	-37.3522	1340.9962	33.0522	-19.5652	1332.6150
1-5	-54.7733	-260.3314 *	1353.6232	-17.9364	-216.1712 *	1341.5872
6-14	-66.8596	-16.9026	1369.5122	-52.0304	7.7182	1349.1829
15+	-2.7840	-132.3414	1383.1226	0.8631	-101.7592	1343.2832
	MSE =	152455.7		MSE =	146717.7	
Followup						
0	44.7950 *	35.6995	1331.6436	61.7163 **	52.4102	1318.5059
1-5	52.7968	106.5612	1276.6150	92.5369	133.4219	1259.8152
6-14	-30.1678	48.8792	1383.2767	-20.3494	69.5777	1376.5489
15+	154.7648 **	83.6363	1248.9294	169.9795 **	118.9873	1213.3873
	MSE =	134180.5		MSE =	129585	
Vitamin A (IU)						
Initial						
0	344.0186	-985.6074	6176.1679	392.8729	-945.4937	6102.9633
1-5	1833.3467	1004.8282	4396.8696	1676.4823	384.3835	4447.5366
6-14	1004.8919	1953.0702	5000.7931	1011.6522	2175.2545	5085.5968
15+	-1023.7998	108.1029	5593.7970	-1130.2891	-66.2141	5811.1189
	MSE =	79402369		MSE =	78991864	
Followup						
0	157.1070	659.6987	6783.3581	224.4910	690.0280	6655.7754
1-5	321.3037	279.0124	6002.3250	353.1750	-505.9930	5944.1793
6-14	-236.0417	1072.2201	6693.6332	-74.1830	1531.0566	6726.1045
15+	2128.3827	-296.7321	4970.0333	2298.8950 *	-120.6141	5035.5415
	MSE =	77281339		MSE =	76375482	
Thiamin (mg)						
Initial						
0	0.1270 **	-0.0045	1.4416	0.1188 **	-0.0222	1.4401
1-5	-0.0043	0.0560	1.4776	-0.0237	0.0012	1.4985
6-14	-0.1296	0.4016 *	1.5724	-0.1289	0.4084 *	1.5869
15+	0.0494	0.2691	1.3076	0.0431	0.2690	1.3392
	MSE =	0.5450109		MSE =	0.542209	

(continued)

Table V-B-8 (continued)

Cigarettes per day	Unadjusted ^b			Fully adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
0	0.3227 **	0.2789 *	1.4662	0.3080 **	0.2924 **	1.4760
1-5	0.1228	0.7042 *	1.5626	0.1080	0.6447 *	1.5699
6-14	0.2020	0.7214 **	1.4957	0.1778	0.7043 *	1.5244
15+	0.2455	0.2189	1.4084	0.2441	0.2185	1.4096
	MSE =	1.042502		MSE =	1.036867	
Riboflavin (mg)						
Initial						
0	0.1263	-0.0825	1.9736	0.1555 *	-0.0489	1.9607
1-5	-0.0975	-0.4795	2.0031	-0.0348	-0.4045	1.9747
6-14	-0.0495	0.6640 *	2.0421	-0.0213	0.7224 *	2.0001
15+	-0.0137	-0.0136	1.9751	-0.0107	0.0554	1.9072
	MSE =	1.33221		MSE =	1.321353	
Followup						
0	0.3101 **	0.3368 *	2.0307	0.3181 **	0.3924 **	2.0364
1-5	0.2202	0.7298	1.9479	0.2912	0.7433	1.8935
6-14	-0.0258	0.7864 *	2.2869	-0.0121	0.8127 *	2.2606
15+	0.2872	-0.1814	2.1238	0.3199	-0.1391	2.0302
	MSE =	2.038408		MSE =	2.020445	
Niacin (mg)						
Initial						
0	0.1397	-1.0381	19.6701	0.0161	-1.1696	19.7054
1-5	-2.4682	-2.9913	21.0344	-2.7158	-3.5309	21.2062
6-14	-0.7499	6.3188 *	19.3112	-0.7750	6.5092 *	19.4454
15+	0.3959	5.1586 *	17.5750	0.2538	5.0600 *	17.9578
	MSE =	97.70394		MSE =	97.1693	
Followup						
0	2.3522 **	2.2297	19.5945	2.2710 **	2.5380	19.6611
1-5	1.9053	6.3523	20.1305	1.8877	5.3615	19.8952
6-14	1.6383	9.6704 **	19.5618	1.7392	9.7422 **	19.4810
15+	1.4435	-0.4060	19.9425	1.7899	-0.2869	19.7864
	MSE =	183.9194		MSE =	183.2765	
Vitamin B6 (mg)						
Initial						
0	0.0008	-0.1064	1.6753	-0.0135	-0.1315	1.6778
1-5	-0.0976	-0.2927	1.6148	-0.1212	-0.3662	1.6433
6-14	-0.1273	1.0169 **	1.5593	-0.1374	1.0262 **	1.5884
15+	-0.0331	0.3274	1.4937	-0.0419	0.3384	1.5237
	MSE =	0.8634467		MSE =	0.8606075	
Followup						
0	0.2661 **	0.1456	1.6662	0.2762 **	0.1629	1.6534
1-5	0.1455	0.4646	1.6659	0.1540	0.3537	1.6541
6-14	0.0900	0.7608 *	1.7508	0.1063	0.7423 *	1.7546
15+	0.2817	0.0196	1.5438	0.3300	0.0593	1.5113
	MSE =	1.66439		MSE =	1.652669	

(continued)

Table V-B-8 (continued)

Cigarettes per day	Unadjusted ^b			Fully adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Vitamin B12 (mcg)						
Initial						
0	-0.7313	-2.0588	6.2811	-0.5399	-1.8951	6.1304
1-5	0.2657	-2.0604	5.0415	0.5885	-2.1061	4.8167
6-14	0.3904	1.1865	4.9926	0.4265	1.3143	4.9814
15+	-0.0132	-1.7858	5.1714	-0.0518	-1.7169	5.0926
	MSE =	105.9834		MSE =	106.3074	
Followup						
0	0.6316	1.3485	6.0874	0.6362	1.4858	6.0983
1-5	0.7672	2.0987	4.5156	1.2310	1.8932	4.1282
6-14	-0.2002	5.5343	6.3478	-0.0442	5.8622	6.2255
15+	2.4939	-0.3565	4.7265	2.6884	-0.4206	4.4535
	MSE =	145.7525		MSE =	145.1721	
Vitamin C (mg)						
Initial						
0	8.9738	8.9504	127.6993	10.5236	9.2093	124.1037
1-5	22.7950	38.5933	107.3512	17.7677	25.4227	110.5895
6-14	-15.8264	2.6691	121.7304	-16.5177	1.6764	126.7666
15+	1.9812	-8.5003	86.9493**	1.8660	-10.3044	95.1950
	MSE =	12525.2		MSE =	12400.27	
Followup						
0	28.7725 **	14.1714	124.3370	30.6589 **	13.8182	120.3030
1-5	12.2381	41.0441	115.0510	6.5149	31.2278	118.7498
6-14	35.0648 *	79.9602 *	91.6072	34.9543 *	82.8590 *	96.7347
15+	11.0342	5.0881	111.9132*	10.5437	5.3760	120.3877
	MSE =	15471.32		MSE =	15361.27	
Intake from Potential WIC Foods						
Calories (kcal)						
Initial						
0	61.3021 **	10.7792	373.6705	70.6285 **	15.9104	362.3188
1-5	50.5367	-79.7470	379.4366	55.9167	-80.7259	386.0789
6-14	-19.9341	12.7141	418.5276	-21.9905	9.3875	430.6346
15+	15.0269	-99.2272	407.9046	12.1322	-88.2955	408.0228
	MSE =	121315		MSE =	116628.5	
Followup						
0	109.4296 **	113.4168 **	381.8342	125.9361 **	119.9555 **	362.8714
1-5	121.7322 *	265.3128 **	322.1516	133.0440 **	241.7160 **	324.9747
6-14	83.5562 *	275.8018 **	370.0168	97.5845 *	273.0177 **	372.5089
15+	147.6133 **	135.5383	313.8734	169.3772 **	164.2418 *	299.2637
	MSE =	113067.8		MSE =	109627.9	
Protein (g)						
Initial						
0	2.7766 *	-0.1031	20.1780	3.2883 **	0.2652	19.6655
1-5	2.0771	-6.3534	20.8020	2.5516	-5.9054	21.0781
6-14	-0.1985	-1.0134	21.9588	-0.2500	-0.8182	22.3488
15+	0.5142	-5.4527	22.7100	0.3262	-4.7304	22.3191
	MSE =	352.2902		MSE =	337.8407	

(continued)

Table V-B-8 (continued)

Cigarettes per day	Unadjusted ^b			Fully adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
0	4.1106 **	4.4394 *	20.6046	5.0594 **	4.7761 **	19.5824
1-5	5.5917 *	11.5494 *	17.1169	6.5733 *	10.7541 *	17.0477
6-14	2.9167	10.7949 *	20.5084	3.7016	10.5485 *	20.5431
15+	7.5694 **	6.2142	16.5879	8.7475 **	7.7402	15.5774
	MSE =	305.2969		MSE =	294.8966	
Fat (g)						
Initial						
0	2.7903 *	0.7593	18.3420	3.3506 **	1.0984	17.8387
1-5	2.3736	-4.9120	19.1250	2.9558	-4.3140	19.1271
6-14	-1.8570	-2.1950	22.5323	-1.8029	-2.5057	22.7921*
15+	-1.2371	-8.4015	24.0477*	-1.3398	-7.9101	23.5706*
	MSE =	358.6348		MSE =	349.2941	
Followup						
0	3.1634 **	3.6275 *	19.2072	3.8953 **	3.8193 *	18.4719
1-5	5.3521 *	11.0803 *	15.3960	6.2910 *	10.6240 *	15.1837
6-14	2.0097	12.9249 **	19.5786	2.6039	12.7314 **	19.5156
15+	6.2965 **	4.1427	16.3666	7.2405 **	5.5850	15.4174
	MSE =	301.5033		MSE =	294.6179	
Carbohydrate (g)						
Initial						
0	6.5938 **	1.2741	32.6620	7.1854 **	1.5013	31.4525
1-5	5.5300	-2.1277	31.6869	5.1790	-4.0298	33.0131
6-14	-0.5217	10.0268	32.8860	-1.0767	9.6283	34.8976
15+	6.4364	-0.6217	25.8988	6.1526	0.3229	27.3109
	MSE =	1381.307		MSE =	1332.088	
Followup						
0	17.2913 **	16.2761 **	32.1118	18.8887 **	17.2153 **	29.9639
1-5	13.5706 *	30.6353 **	29.4786	13.3013 *	26.5518 *	30.8201
6-14	13.5237 **	31.3166 **	28.9597	14.9682 **	31.4032 **	29.7316
15+	15.8704 **	18.5260	25.6374	18.0370 **	21.2192 *	25.0565
	MSE =	1698.639		MSE =	1657.711	
Calcium (mg)						
Initial						
0	60.9789	-24.2721	524.4686	89.7694 **	4.4155	505.4638
1-5	-1.1246	-311.5039 *	584.9020	43.4259	-266.9117	564.9146
6-14	-20.3343	57.2551	600.7510	-0.6363	70.3238	579.6142
15+	-7.4727	-200.5376	649.3724	1.9635	-156.9594	603.2627
	MSE =	309247.1		MSE =	298612	
Followup						
0	107.8236 **	95.2613	533.1154	133.6202 **	114.3673 *	512.9648
1-5	160.9630 *	308.1323 *	435.5701	202.1076 **	309.4760 *	419.6514
6-14	2.1669	209.8623	625.8765	25.6850	205.2131	610.2033
15+	223.4260 **	180.3567	446.4052	254.7637 **	227.0105	395.3542
	MSE =	259299.8		MSE =	251822.6	

(continued)

Table V-B-8 (continued)

Cigarettes per day	Unadjusted ^b			Fully adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Iron (mg)						
Initial						
0	1.2436 **	-0.0387	1.9751	1.0936 **	-0.3180	1.9917
1-5	0.0963	-1.1728	2.6093	-0.1394	-1.5188	2.9624
6-14	-0.0746	5.1107 **	2.0908	-0.3428	5.1219 **	2.5471
15+	0.6645	-0.1336	1.7453	0.4882	-0.0306	2.1003
	MSE =	40.43557		MSE =	39.84119	
Followup						
0	3.6488 **	4.1096 **	2.2935	3.8342 **	4.4779 **	2.1181
1-5	3.7940 *	8.7146 **	1.6345	3.8201 *	7.9484 **	1.7356
6-14	3.8246 **	8.1844 **	1.7186	4.0800 **	8.1112 **	1.5926
15+	3.1789 *	2.7432	2.0371	3.5720 *	3.0653	1.5913
	MSE =	127.6911		MSE =	126.9315	
Magnesium (mg)						
Initial						
0	12.8555 **	0.8405	75.1162	14.6060 **	2.5157	72.9713
1-5	12.9678	-10.5274	72.8821	14.6441	-9.3360	74.5821
6-14	3.4570	15.2802	76.7935	2.7409	14.5949	79.3382
15+	14.9394	-3.9393	70.9107	14.4202	-1.5794	69.9764
	MSE =	6434.205		MSE =	6134.449	
Followup						
0	25.8061 **	21.0825 *	76.6296	29.2405 **	22.2394 **	72.3568
1-5	20.7731	52.0087 *	70.1024	22.7642	47.6248 *	71.4541
6-14	14.5101	62.0205 **	76.7982	17.4456	61.6077 **	78.0455
15+	30.4894 **	35.6901	61.0036	34.5544 **	41.3585 *	58.8148
	MSE =	6142.656		MSE =	5961.301	
Phosphorus (mg)						
Initial						
0	67.2271 *	-8.3082	503.2396	84.3430 **	8.1655	489.5702
1-5	39.2253	-201.5852	528.5663	60.2243	-179.0739	526.6221
6-14	-22.6344	4.5230	575.2498	-16.1916	12.1131	573.0284
15+	-4.1764	-176.0145	606.5671	-4.7957	-150.7130	585.1752
	MSE =	242459.8		MSE =	234241.7	
Followup						
0	104.3002 **	104.6658 *	515.5345	127.0148 **	116.8214 *	493.6104
1-5	163.8031 *	323.0287 **	417.7221	193.4975 **	311.4254 **	410.6145
6-14	54.7080	253.1582 *	547.1531	73.8079	247.1310 *	542.9351
15+	202.2396 **	170.7546	420.8778	231.3541 **	212.6276	387.1315
	MSE =	205896		MSE =	199707.3	
Vitamin A (IU)						
Initial						
0	386.4323 **	13.8217	929.2487	404.1142 **	8.6185	903.0117
1-5	-33.5039	-423.0080	1223.2687	-8.9270	-419.6708	1243.8150
6-14	-162.0966	1482.5102 **	1212.0707	-161.7372	1501.3054 **	1244.2709
15+	-49.2124	-582.8880	1162.1832	-56.9007	-481.9769	1159.7101
	MSE =	2980933		MSE =	2959022	

(continued)

Table V-B-8 (continued)

Cigarettes per day	Unadjusted ^b			Fully adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
0	975.9980 **	1034.6720 **	1069.9181	1056.8846 **	1167.8252 **	1010.6176
1-5	1118.8461 *	2866.6680 **	762.2810	1201.2259 **	2727.4302 **	711.0505
6-14	913.0212 *	2255.8424 **	1087.8758	1001.1699 **	2235.5998 **	1014.8745
15+	985.2668 *	834.9755	919.3341	1102.1264 **	946.9812	753.9924
	MSE =	9401405		MSE =	9324568	
Thiamin (mg)						
Initial						
0	0.1183 **	0.0079	0.2678	0.1187 **	-0.0004	0.2602
1-5	0.0131	-0.0696	0.3318	0.0104	-0.0866	0.3469
6-14	-0.0341	0.5045 **	0.3164	-0.0414	0.5009 **	0.3394
15+	0.0417	-0.0668	0.2594	0.0369	-0.0440	0.2739
	MSE =	0.2856068		MSE =	0.2825907	
Followup						
0	0.3354 **	0.3445 **	0.2972	0.3581 **	0.3805 **	0.2755
1-5	0.3190 *	0.8648 **	0.2370	0.3276 *	0.8039 **	0.2370
6-14	0.2954 **	0.7237 **	0.2909	0.3193 **	0.7188 **	0.2816
15+	0.2932 *	0.2927	0.2507	0.3259 **	0.3235	0.2170
	MSE =	0.8830255		MSE =	0.8770669	
Riboflavin (mg)						
Initial						
0	0.1699 **	-0.0151	0.7027	0.1958 **	0.0023	0.6823
1-5	-0.0190	-0.4638	0.8594	0.0294	-0.4173	0.8502
6-14	-0.0312	0.6253 **	0.8247	-0.0209	0.6377 **	0.8225
15+	0.0291	-0.2513	0.8647	0.0301	-0.1843	0.8230
	MSE =	0.7982489		MSE =	0.7785903	
Followup						
0	0.4004 **	0.4280 **	0.7570	0.4430 **	0.4850 **	0.7269
1-5	0.4582 *	1.1751 **	0.5958	0.5164 **	1.1320 **	0.5690
6-14	0.2558	0.7837 *	0.8887	0.2987 *	0.7734 *	0.8534
15+	0.4925 **	0.4064	0.6619	0.5517 **	0.4721	0.5635
	MSE =	1.533764		MSE =	1.507031	
Niacin (mg)						
Initial						
0	1.3340 **	0.0934	1.0017	1.2988 **	-0.0151	0.9904
1-5	-0.0749	-0.5744	1.8777	0.0045	-0.5112	1.9524
6-14	-0.1907	6.3370 **	1.6554	-0.2701	6.2781 **	1.8289
15+	0.5559	-0.6695	1.3343	0.5241	-0.4299	1.3558
	MSE =	38.22841		MSE =	38.05164	
Followup						
0	3.7370 **	3.8087 **	1.5093	3.9273 **	4.2664 **	1.4011
1-5	3.3213	9.5780 **	1.2738	3.4851	9.1317 **	1.1645
6-14	3.2989 *	9.4359 **	1.6991	3.5642 *	9.3886 **	1.4145
15+	3.0685	3.0594	1.5091	3.3869 *	3.3515	0.9736
	MSE =	141.3081		MSE =	140.7564	

(continued)

Table V-B-8 (continued)

Cigarettes per day	Unadjusted ^b			Fully adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Vitamin B6 (mg)						
Initial						
0	0.1391 **	-0.0093	0.2652	0.1337 **	-0.0276	0.2615
1-5	0.0060	-0.0891	0.3510	-0.0006	-0.1034	0.3766
6-14	-0.0418	0.6263 **	0.3252	-0.0600	0.6224 **	0.3606
15+	0.0484	-0.0541	0.2836	0.0353	-0.0317	0.3010
	MSE =	0.4470635		MSE =	0.4410647	
Followup						
0	0.3974 **	0.4019 **	0.3083	0.4172 **	0.4441 **	0.2908
1-5	0.3917 *	1.0252 **	0.2285	0.4021 *	0.9591 **	0.2299
6-14	0.3493 *	0.8680 **	0.3168	0.3718 *	0.8559 **	0.3059
15+	0.3578 *	0.3478	0.2584	0.3996 *	0.3811	0.2076
	MSE =	1.495356		MSE =	1.485705	
Vitamin B12 (mcg)						
Initial						
0	0.4998 **	-0.0018	1.7235	0.5443 **	0.0041	1.6807
1-5	-0.0961	-1.1569	2.2105	-0.0037	-1.0769	2.2167
6-14	-0.0961	2.0107 **	2.0645	-0.0902	2.0449 **	2.0947
15+	0.0007	-0.7459	2.1815	-0.0141	-0.5700	2.1155
	MSE =	6.211521		MSE =	6.090266	
Followup						
0	1.2316 **	1.3436 **	1.9023	1.3454 **	1.5146 **	1.8256
1-5	1.4455 *	3.7323 **	1.4000	1.5969 **	3.5834 **	1.3238
6-14	0.9231 *	2.5744 *	2.1837	1.0414 *	2.5343 *	2.0804
15+	1.4158 **	1.1030	1.6873	1.5778 **	1.2682	1.4126
	MSE =	15.55283		MSE =	15.35056	
Vitamin C (mg)						
Initial						
0	14.2352 **	11.0421	40.6170	15.2951 **	11.3040	37.7799
1-5	13.7789	38.5500	36.2421	11.0282	30.5380	38.2549
6-14	-9.5185	23.4680	47.1421	-9.4855	20.6490	50.8718
15+	1.4241	-13.4489	22.0670	2.1499	-12.6973	27.9614
	MSE =	7705.79		MSE =	7634.458	
Followup						
0	36.0210 **	31.4254 **	40.6144	38.9855 **	32.8508 **	35.8649
1-5	25.2796	81.4294 **	36.0591	21.8307	70.2407 *	38.4973
6-14	36.8980 **	82.0056 **	22.6555	39.1069 **	83.0624 **	25.8424
15+	22.3849	34.1291	27.5139	24.2881	36.0427	32.6343
	MSE =	10972.95		MSE =	10888.35	

(continued)

Table V-B-8 (continued)

Cigarettes per day	Unadjusted ^b			Total	Fully adjusted ^c		
	WIC	WIC/control	Control		WIC	WIC/control	Control
0	1,773	123	321	2,217			
1-5	251	20	53	324			
6-14	408	17	87	512			
15+	330	21	69	420			
Total	2,762	181	530	3,473			

*
p < 0.05.

**
p < 0.01.

p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/Control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control group and differences from Control group means for WC and WIC/Control groups.

^bInitial interviews controlled for duration of gestation at registration. Followup interviews controlled for initial nutrient intake and duration of gestation.

^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews adjusted for initial nutrient intake, duration of gestation, and maternal characteristics at registration into study. See Appendix V-A-3 for full covariate list.

Table V-B-9

Mean Daily Dietary Intake at Initial and Followup Interviews
by WIC Status^a and Ethnic Group

Ethnic Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Total Intake Per Day						
Calories (kcal)						
Initial						
White Nonhispanic	-164.2459**	133.7370	2100.5104	-135.0146*	159.6652	2047.7220
White Hispanic	14.7016	-144.8816	1933.6841	21.2023	-145.9598	1996.1797
Black	215.6360*	192.5786	1851.4367*	231.0477*	191.9496	1843.6368
Other	331.8731	316.9227	1835.1448	352.4004	293.1368	1863.6677
	MSE =	829919		MSE =	808915.5	
Followup						
White Nonhispanic	102.8232	122.0043	1896.7019	135.7027**	129.0952	1868.9231
White Hispanic	26.1545	114.6562	2023.7036	48.0524	124.6980	2004.8881
Black	103.2370	167.4680	1917.9806	128.3417	171.1685	1900.2053
Other	-91.0996	109.6404	1906.1579	-48.0340	34.1932	1888.1935
	MSE =	677627.3		MSE =	659752.1	
Protein (g)						
Initial						
White Nonhispanic	-7.7650**	-0.5543	84.5667	-6.9860**	0.8049	83.2843
White Hispanic	1.1540	-7.8645	77.2489	0.6488	-7.7621	79.5672
Black	9.6430*	5.2861	74.5939*	10.1811*	5.0687	73.9399
Other	17.8354	16.5137	70.2746	19.2560	16.0265	70.2017
	MSE =	1686.07		MSE =	1651.064	
Followup						
White Nonhispanic	3.3340	2.6474	75.9948	5.2544*	4.5419	74.2398
White Hispanic	2.4895	6.6313	80.0248	3.8013	7.1074	79.3829
Black	6.6221	10.2777	75.3784	8.7348*	11.2540	73.6643
Other	-13.0454	-3.0126	81.8354	-9.2031	-6.6562	78.8124
	MSE =	1605.431		MSE =	1554.408	
Fat (g)						
Initial						
White Nonhispanic	-8.4319**	1.6897	91.4545	-6.5506*	3.1270	87.8886
White Hispanic	-2.8838	-7.0662	79.4156	-1.5846	-6.7379	83.3370
Black	11.0635*	5.5959	78.3573	12.3136*	6.0798	77.5802
Other	8.8568	-10.2625	83.6738	10.4914	-11.4759	85.0298
	MSE =	2365.82		MSE =	2310.052	
Followup						
White Nonhispanic	4.2876	2.8852	80.7501	5.8172*	3.5381	78.8389
White Hispanic	-2.3918	1.1980	80.2561*	-0.2570	1.5573	80.5567*
Black	7.3028	10.8933	75.9180*	9.2306*	11.1102	74.2150
Other	-16.2820	-3.5154	84.9160	-13.1027	-5.0180	83.7828
	MSE =	1955.769		MSE =	1914.772	

(continued)

Table V-B-9 (continued)

Ethnic Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Carbohydrate (g)						
Initial						
White Nonhispanic	-14.7424*	29.4910*	239.8568	-12.0770	31.6198*	235.7533
White Hispanic	11.0802	-11.4430	230.0991	10.5855	-12.2909	234.7262
Black	19.5867	30.2568	215.4912	20.1280	29.2983	215.5576
Other	47.0491	88.3053	203.5312	47.5841	85.1977	207.0128
	MSE =	12990.71		MSE =	12769.26	
Followup						
White Nonhispanic	12.3507	23.6434	221.5790	15.6195*	22.6268	220.0798
White Hispanic	8.6788	17.7477	249.4294*	8.4750	18.9733	244.9945
Black	4.8813	3.9962	236.3216	5.0012	3.4732	237.2431
Other	30.6537	38.6578	205.7662	31.2442	26.5424	206.3699
	MSE =	11005.63		MSE =	10827.97	
Calcium (mg)						
Initial						
White Nonhispanic	-45.5621	24.0161	1069.8964	-22.2914	59.1760	1044.8054
White Hispanic	131.3899	-88.7824	829.1475***	129.0222	-78.4996	862.3227*
Black	116.4975	53.2334	725.2761***	128.9678	63.2067	703.2474***
Other	111.4515	104.7421	903.4231	127.0524	100.0953	901.8592
	MSE =	425673.4		MSE =	417678.4	
Followup						
White Nonhispanic	75.5930*	115.1961	969.5957	101.1998**	141.8552	949.7710
White Hispanic	148.2413*	275.6274**	859.1934	157.7246**	271.7208**	847.8773
Black	145.6693*	72.6942	776.5458**	170.0048**	89.7301	756.4038**
Other	202.8033	437.3884	731.6635	254.1524	406.1646	688.4990
	MSE =	341470.5		MSE =	334415.3	
Iron (mg)						
Initial						
White Nonhispanic	-1.2434*	0.9907	14.8824	-1.2967*	1.0921	14.8969
White Hispanic	1.8359	-1.1459	13.8713	1.7238	-1.1890	14.1226
Black	1.2013	0.4166	13.7947	0.9940	0.0522	13.9270
Other	1.8888	2.5466	13.0351	2.2403	2.4475	12.8397
	MSE =	91.65896		MSE =	91.21812	
Followup						
White Nonhispanic	2.8440**	7.4854**	14.0688	3.2910**	7.8486**	13.8467
White Hispanic	3.0719*	2.5858	14.7632	2.6641	2.4805	14.6481
Black	3.2104*	0.9112	14.1635	3.3080*	0.8570	14.0817
Other	2.4741	5.6535	13.6771	2.6884	4.4875	13.7022
	MSE =	177.9462		MSE =	175.0372	

(continued)

Table V-B-9 (continued)

Ethnic Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Magnesium (mg)						
Initial						
White Nonhispanic	-15.0983	5.0491	278.2615	-10.0071	10.5305	270.4812
White Hispanic	25.1317	-17.6342	244.7516*	23.6494	-15.4399	253.4445
Black	28.3494	43.0147	219.8249**	30.9038*	43.6991	218.8950**
Other	38.4064	11.0459	244.5931	46.5146	5.7554	240.6129
	MSE =	20522.24		MSE =	20114.54	
Followup						
White Nonhispanic	17.4536*	21.7438	251.9234	22.7381**	27.2000	248.8249
White Hispanic	21.7801	25.8108	258.1119	24.7134	27.8591	251.5470
Black	27.8525*	-1.5924	233.1732	32.5560*	0.9997	229.9669
Other	17.5851	50.7661	235.6960	26.7219	32.6953	225.1194
	MSE =	16872.09		MSE =	16365.92	
Phosphorus (mg)						
Initial						
White Nonhispanic	-129.2775**	-2.4717	1486.5367	-109.1532*	27.1996	1456.8565
White Hispanic	109.2092	-146.0406	1276.1937**	100.4851	-133.6480	1316.7842
Black	168.9943*	130.5834	1119.0915***	179.0030*	135.8911	1108.9063***
Other	236.4572	194.6662	1197.3696	263.7954	196.1513	1198.0125
	MSE =	505180.7		MSE =	493746.2	
Followup						
White Nonhispanic	94.9908*	131.5210	1296.8050	121.5431**	157.9366	1277.4311
White Hispanic	113.7318	210.1321	1326.4841	121.9395	212.2992*	1312.1107
Black	151.1312*	134.8275	1180.0048	174.5585**	145.2728	1161.3237
Other	76.5537	235.0152	1163.6328	122.6562	168.6167	1123.7161
	MSE =	411406.2		MSE =	398847.3	
Vitamin A (IU)						
Initial						
White Nonhispanic	-545.2988	6.2612	5940.9150	-311.6335	270.7586	5848.7578
White Hispanic	980.4837	-619.4361	5404.6298	856.1166	-642.2650	5419.2126
Black	1531.8914	42.5239	5636.4285	1679.6690	-131.9151	5402.1827
Other	1539.5951	724.3921	5847.7897	1769.1413	987.7424	5494.1565
	MSE =	84850671		MSE =	84461986	
Followup						
White Nonhispanic	392.9028	1561.7575	6017.0845	731.0478	1948.9613	5685.2199
White Hispanic	695.4591	-142.6894	6032.4735	686.4547	-398.9214	6003.7439
Black	709.1903	1432.3778	6975.7589	1308.7992	1450.2813	6601.3953
Other	-1842.9275	-108.2667	7659.5166	-1042.0796	-447.0621	6828.7794
	MSE =	83656088		MSE =	82669711	

(continued)

Table V-B-9 (continued)

Ethnic Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Thiamin (mg)						
Initial						
White Nonhispanic	-0.0992	0.2029	1.5130	-0.0890	0.2316	1.5098
White Hispanic	0.2067*	-0.1509	1.4372	0.1999	-0.1486	1.4357
Black	0.2301*	0.2122	1.3511	0.2126*	0.1739	1.3607
Other	0.3627	0.4347	1.3168	0.3965	0.4412	1.3001
	MSE =	0.9867046		MSE =	0.9757356	
Followup						
White Nonhispanic	0.2964**	0.6845**	1.4221	0.3222**	0.7061**	1.4114
White Hispanic	0.3819**	0.3964	1.4593	0.3488**	0.3822	1.4311
Black	0.3530**	0.1205	1.4219	0.3534**	0.1331	1.4357
Other	0.3876	0.7474	1.2740	0.3950	0.6108	1.2780
	MSE =	1.469442		MSE =	1.441626	
Riboflavin (mg)						
Initial						
White Nonhispanic	-0.1490	0.2165	2.2134	-0.1195	0.2746	2.1807
White Hispanic	0.3023	-0.2422	1.8161	0.3127*	-0.2300	1.8710
Black	0.3425*	0.0984	1.6264***	0.3469*	0.0947	1.5952***
Other	0.2521	0.4200	1.7774	0.3176	0.4615	1.7481
	MSE =	2.139951		MSE =	2.120284	
Followup						
White Nonhispanic	0.2638*	0.7058**	2.1038	0.3287**	0.7630**	2.0603
White Hispanic	0.4533*	0.5350	1.8939	0.4193*	0.5098	1.9037
Black	0.3816*	0.2056	1.8938	0.4264*	0.2166	1.8466
Other	0.3449	0.9204	1.7316	0.3951	0.8204	1.7200
	MSE =	2.852138		MSE =	2.799794	
Niacin (mg)						
Initial						
White Nonhispanic	-2.2068**	2.4714	20.2889	-2.0077*	2.6998	19.9569
White Hispanic	0.5636	-1.8620	18.6510	0.9453	-1.7350	19.1044
Black	1.6390	0.6830	19.2857	1.6067	0.3059	19.1476
Other	4.2353	4.9043	16.1185	4.9452	5.1813	15.8374
	MSE =	166.9667		MSE =	165.0467	
Followup						
White Nonhispanic	2.6784**	7.6877**	18.7853	3.3580**	8.2249**	18.2912
White Hispanic	2.7758	2.8893	19.0393	2.5698	2.6985	18.8222
Black	3.2734	1.8133	19.4305	3.7351*	1.7124	19.1689
Other	1.0717	2.3131	18.3979	1.7459	0.8726	17.9907
	MSE =	258.6762		MSE =	254.4559	

(continued)

Table V-B-9 (continued)

Ethnic Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Vitamin B6 (mg)						
Initial						
White Nonhispanic	-0.2181**	0.2404	1.7047	-0.2087**	0.2625	1.6985
White Hispanic	0.1693	-0.1486	1.5885	0.1540	-0.1572	1.6208
Black	0.1483	0.1311	1.5261	0.1283	0.0910	1.5288
Other	0.2040	0.1967	1.4440	0.2597	0.1897	1.4159
	MSE =	1.381025		MSE =	1.370233	
Followup						
White Nonhispanic	0.2795**	0.6957**	1.5853	0.3443**	0.7436**	1.5375
White Hispanic	0.3059	0.1636	1.6991	0.2773	0.1337	1.6874
Black	0.3778*	-0.0805	1.5441	0.4074**	-0.0990	1.5326
Other	0.2208	0.5118	1.5302	0.2841	0.3891	1.4895
	MSE =	2.209759		MSE =	2.165727	
Vitamin B12 (mcg)						
Initial						
White Nonhispanic	-0.9647	-0.9834	6.2916	-0.7564	-0.7937	6.0716
White Hispanic	-1.2165	-2.9904	6.3941	-1.1419	-2.8984	6.5260
Black	1.5178	-0.4245	4.1924	1.7203	-0.5266	3.9853
Other	1.8007	0.5143	3.9906	2.3900	0.8866	3.5809
	MSE =	111.5573		MSE =	111.5396	
Followup						
White Nonhispanic	0.7086	2.0983	5.7524	1.0390	2.3942	5.4753
White Hispanic	1.6312	-0.1434	5.1302	1.5348	-0.2889	5.5921
Black	1.1669	3.8974	5.6525	1.6646	3.8596	4.9968
Other	0.7834	8.6824	4.1884	1.4825	9.0190	3.6927
	MSE =	154.769		MSE =	153.9932	
Vitamin C (mg)						
Initial						
White Nonhispanic	-6.2950	4.3048	114.5192	-2.9920	8.7039	114.6666
White Hispanic	22.5716	13.3953	124.0143	18.8269	12.4605	121.6350
Black	7.9595	19.6011	132.7247	10.7542	20.9172	128.7581
Other	25.6700	1.9472	114.3383	32.8974	-2.0945	106.4058
	MSE =	14814.24		MSE =	14556.34	
Followup						
White Nonhispanic	26.2417**	45.0516**	101.9668	30.1392**	49.6605**	99.8376
White Hispanic	31.3821*	20.0835	126.1285	35.7260**	21.7282	118.4591
Black	26.6856	1.7976	131.6137	28.9764*	6.7193	130.8078
Other	69.5644	58.5118	107.4826	74.5621*	46.3686	98.0507
	MSE =	17294.13		MSE =	17204.21	

(continued)

Table V-B-9 (continued)

Ethnic Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
<u>Total Intake Adjusted for Caloric Intake</u>						
Protein (g)						
Initial						
White Nonhispanic	-1.5187	-5.6404	80.4870	-1.8533	-5.2649	81.2129
White Hispanic	0.5949	-2.3546	79.5136	-0.1572	-2.2133	79.4552
Black	1.4423	-2.0377	79.9865	1.3976	-2.2285	79.6270
Other	5.2142	4.4611	76.2868	5.8592	4.8827	75.1273
	MSE =	485.9025		MSE =	482.1569	
Followup						
White Nonhispanic	-0.5021	-3.6814	79.9023	0.0049	-2.0006	79.5114
White Hispanic	1.5280	2.1026	79.2585	1.8323	2.2536	79.1417
Black	2.1657	2.6793	79.1252	3.2784	3.5485	78.0249
Other	-9.4657	-7.4459	85.3729	-7.2717	-7.9834	82.7259
	MSE =	525.2523		MSE =	519.0973	
Fat (g)						
Initial						
White Nonhispanic	-0.5628	-4.7177	86.3148	-0.0919	-4.5108	85.2821
White Hispanic	-3.5882	-0.1248	82.2686	-2.5989	0.2444	83.1961
Black	0.7323	-3.6306	85.1509	1.2611	-3.1024	84.7364
Other	-7.0434	-25.4464**	91.2479	-6.3663	-25.4986**	91.2278
	MSE =	460.9546		MSE =	459.1116	
Followup						
White Nonhispanic	-0.0961	-4.1812	85.6290	-0.1153	-3.9018	84.9928
White Hispanic	-4.3515*	-3.7073	78.9532**	-3.0691	-3.7458	80.1227*
Black	1.8799	1.7066	80.4082*	2.6623	1.8510	79.4967*
Other	-14.5011*	-14.6316	91.2032	-13.2677*	-12.4113	90.7926
	MSE =	425.7248		MSE =	422.8696	
Carbohydrate (g)						
Initial						
White Nonhispanic	2.7950	15.2112	228.4023	2.3625	14.5439	229.9259
White Hispanic	9.5105	4.0268	236.4576	8.3180	3.3192	234.4112
Black	-3.4380	9.6941	230.6317	-4.5821	8.7697	231.5566
Other	11.6132	54.4657*	220.4113	9.8956	53.8474*	220.8696
	MSE =	3529.797		MSE =	3518.035	
Followup						
White Nonhispanic	3.1296	13.3356	230.9583	2.6694	11.1874	233.0105
White Hispanic	7.8207	7.3686	248.1911**	4.9876	7.3709	244.9666
Black	-7.7368	-12.5102	245.2885*	-10.6121	-13.7150	248.3619*
Other	40.9162*	36.9770	213.8420	36.4379*	32.5418	216.3725
	MSE =	3547.338		MSE =	3528.009	

(continued)

Table V-B-9 (continued)

Ethnic Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Calcium (mg)						
Initial						
White Nonhispanic	31.6250	-38.8334	1019.4819	-40.8217	-15.4600	1019.3347
White Hispanic	124.4809*	-20.6955	857.1328**	119.1112*	-10.2702	860.9456**
Black	15.1597	-37.2686	791.9135***	20.9638	-26.5208	773.1769***
Other	-44.5118	-44.1952	977.7167	-37.6784	-36.9325	962.4253
	MSE =	242454.5		MSE =	240990.4	
Followup						
White Nonhispanic	45.3453	51.8554	1015.7555	57.0432	77.7416	1009.5733
White Hispanic	151.5786**	232.5506**	841.2935***	150.5506**	226.3078**	835.4705**
Black	92.8649	-12.5823	799.1251***	107.1182*	5.2233	784.8112***
Other	218.3243	369.2591	782.5699*	251.2859	372.5876*	742.9779*
	MSE =	218213.8		MSE =	217081.5	
Iron (mg)						
Initial						
White Nonhispanic	-0.1473	0.0982	14.1665	-0.3871	0.0164	14.5298
White Hispanic	1.7378*	-0.1791	14.2687	1.5810*	-0.2056	14.1028
Black	-0.2377	-0.8685	14.7410	-0.5626	-1.2410	14.9349
Other	-0.3259	0.4316	14.0901	-0.1340	0.4725	13.7127
	MSE =	54.71473		MSE =	54.51563	
Followup						
White Nonhispanic	2.2068**	6.3551**	14.7323	2.3344**	6.6352**	14.8365
White Hispanic	3.0761*	1.8223	14.6331	2.4621*	1.6460	14.5664
Black	2.0872	-0.7847	15.0423	1.9405	-0.8895	15.1224
Other	2.7529	4.4443	14.5802	2.6258	3.9110	14.6572
	MSE =	132.4546		MSE =	131.7859	
Magnesium (mg)						
Initial						
White Nonhispanic	5.0942	-11.3926	265.0729	6.5910	-9.0980	263.7826
White Hispanic	23.3243*	0.1776	252.0727	21.0429*	2.5038	253.0823
Black	1.8391	19.3391	237.2574**	2.4997	20.1016	237.2858*
Other	-2.3942	-27.9167	264.0286	3.1919	-30.2816	256.5412
	MSE =	7980.881		MSE =	7891.512	
Followup						
White Nonhispanic	7.8323	3.6600	264.1120	9.1720	8.5216	264.6053
White Hispanic	22.3928*	13.5561	254.7330	22.1828*	14.9072	249.9143
Black	13.5904	-20.4430	240.6886*	15.2773	-18.1482	239.7549*
Other	24.8098	29.6030	249.2317	29.4186	20.4704	239.2233
	MSE =	6887.446		MSE =	6747.287	
Phosphorus (mg)						
Initial						
White Nonhispanic	-21.4910	-90.2366	1416.1364	-20.7466	-77.3481	1421.1780
White Hispanic	99.5613*	-50.9620	1315.2732*	86.6020*	-38.0745	1314.8552*
Black	27.4831	4.2036	1212.1459***	27.7145	10.2038	1206.8613***
Other	18.6654	-13.3144	1301.1155	33.0460	4.2073	1282.8515
	MSE =	147806.7		MSE =	146963.3	

(continued)

Table V-B-9 (continued)

Ethnic Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Folowup						
White Nonhispanic	31.5125	30.1777	1373.6418	36.9234	54.7084	1374.1638
White Hispanic	116.2175**	131.9613*	1308.6268	107.5478**	131.3298*	1303.4260
Black	82.8207*	21.3290	1211.7106***	89.9364*	31.3279	1203.8923***
Other	126.5630	150.6910	1220.9312	146.7345	135.4932	1187.8917*
	MSE =	131447.5		MSE =	129719.3	
Vitamin A (IU)						
Initial						
White Nonhispanic	-124.7115	-336.2013	5666.2101	38.0261	-142.7409	5707.6448
White Hispanic	942.8370	-248.4356	5557.1196	801.2072	-264.2597	5411.5833
Black	979.7089	-450.6152	5999.5304	1081.3037	-629.0245	5789.6075
Other	689.7623	-87.1568	6252.6105	856.4978	228.5793	5829.7057
	MSE =	79431629		MSE =	79059638	
Folowup						
White Nonhispanic	201.6581	1088.4013	6239.5190	424.7149	1446.2952	6028.4629
White Hispanic	631.3055	-389.2867	5993.8401	548.5560	-674.7900	5973.9933
Black	271.7591	777.4851	7324.3839	793.3974	786.7369	6999.3256
Other	-1788.0859	-667.4999	8060.2154	-1124.2561	-744.5916	7246.9463
	MSE =	77121404		MSE =	76420836	
Thiamin (mg)						
Initial						
White Nonhispanic	0.0204	0.1055	1.4349	0.0098	0.1149	1.4700
White Hispanic	0.1959*	-0.0453	1.4806	0.1844*	-0.0419	1.4336
Black	0.0731	0.0719	1.4544	0.0437	0.0335	1.4701
Other	0.1209	0.2039	1.4319	0.1389	0.2268	1.3949
	MSE =	0.5466054		MSE =	0.543455	
Folowup						
White Nonhispanic	0.2372**	0.5895**	1.4818	0.2338**	0.6048**	1.5024
White Hispanic	0.3868**	0.3175	1.4447	0.3340**	0.2972	1.4181
Black	0.2586*	-0.0210	1.4953	0.2350*	-0.0148	1.5250
Other	0.4374	0.6544	1.3558	0.4109	0.5811	1.3651
	MSE =	1.042936		MSE =	1.035885	
Riboflavin (mg)						
Initial						
White Nonhispanic	0.0139	0.0839	2.1070	0.0145	0.1160	2.1267
White Hispanic	0.2877*	-0.0985	1.8752	0.2917*	-0.0851	1.8680*
Black	0.1287	-0.0926	1.7670*	0.1175	-0.0958	1.7437**
Other	-0.0770	0.1057	1.9341	-0.0322	0.1705	1.8767
	MSE =	1.324098		MSE =	1.323509	
Folowup						
White Nonhispanic	0.1820*	0.5630**	2.2073	0.2083*	0.6138**	2.2027
White Hispanic	0.4583**	0.4227	1.8595*	0.3994**	0.3906	1.8792*
Black	0.2518	-0.0176	1.9727	0.2670	-0.0077	1.9430
Other	0.3800	0.7645	1.8461	0.3860	0.7572	1.8415
	MSE =	2.033434		MSE =	2.022545	

(continued)

Table V-B-9 (continued)

Ethnic Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Niacin (mg)						
Initial						
White Nonhispanic	-0.7089	1.2518	19.3106	-0.7736	1.2404	19.4588
White Hispanic	0.4295	-0.5408	19.1940	0.7515	-0.4009	19.0775
Black	-0.3275	-1.0732	20.5788	-0.5052	-1.4486	20.5150
Other	1.2088	2.0141	17.5602	1.7241	2.5019	17.0216
	MSE =	97.97497		MSE =	97.49164	
Followup						
White Nonhispanic	1.8079*	6.3696**	19.6734	2.1090*	6.8021**	19.5563
White Hispanic	2.5342	1.8832	18.8857	2.1353	1.6208	18.7452
Black	1.8257	-0.3482	20.6606	2.0029	-0.5027	20.5674
Other	1.6157	0.9198	19.4062	1.8700	0.3435	19.0706
	MSE =	183.7595		MSE =	183.0042	
Vitamin B6 (mg)						
Initial						
White Nonhispanic	-0.0893	0.1355	1.6206	-0.1022	0.1366	1.6555
White Hispanic	0.1578	-0.0349	1.6352	0.1373	-0.0421	1.6184
Black	-0.0208	-0.0199	1.6373	-0.0539	-0.0604	1.6468
Other	-0.0564	-0.0519	1.5680	-0.0182	-0.0415	1.5181
	MSE =	0.8707064		MSE =	0.8672513	
Followup						
White Nonhispanic	0.2037*	0.5843**	1.6623	0.2357**	0.6237**	1.6487
White Hispanic	0.2982*	0.0803	1.6911	0.2472	0.0424	1.6849
Black	0.2538	-0.2576	1.6406	0.2578	-0.2808	1.6452
Other	0.2463	0.3640	1.6314	0.2733	0.3136	1.5956
	MSE =	1.662247		MSE =	1.648329	
Vitamin B12 (mcg)						
Initial						
White Nonhispanic	-0.5383	-1.3306	6.0131	-0.4093	-1.2042	5.9315
White Hispanic	-1.2547	-2.6143	6.5487	-1.1964	-2.5231	6.5184
Black	0.9580	-0.9245	4.5605	1.1262	-1.0201	4.3699
Other	0.9391	-0.3085	4.4010	1.4838	0.1328	3.9141
	MSE =	105.9939		MSE =	106.2225	
Followup						
White Nonhispanic	0.4845	1.5274	6.0328	0.6745	1.7789	5.8987
White Hispanic	1.5010	-0.4692	5.1257	1.3247	-0.6442	5.5972
Black	0.6372	3.1247	6.0486	1.0326	3.0723	5.4623
Other	0.8320	8.0170	4.6348	1.3695	8.6503	4.1725
	MSE =	145.8677		MSE =	145.2676	
Vitamin C (mg)						
Initial						
White Nonhispanic	2.2352	-2.6410	108.9477	4.0120	0.4211	111.8400
White Hispanic	21.8081	20.9198	127.1071	17.7270	20.0324	121.4822
Black	-3.2397	9.5994	140.0890	-1.2317	10.9595	136.5187
Other	8.4339	-14.5125	122.5488	14.6161	-17.3014	113.1273
	MSE =	12579.31		MSE =	12383.03	

(continued)

Table V-B-9 (continued)

Ethnic Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Followup						
White Nonhispanic	22.9858**	37.2106*	105.3505	24.9155**	41.3187*	105.3536
White Hispanic	30.8059*	16.7802	125.7430	33.7775**	17.8602	118.1375
Black	18.8743	-8.4882	138.0689	19.8326	-3.6583	138.1001
Other	70.8377*	48.7522	113.9461	73.7076*	40.7896	104.6760*
	MSE =	15422.32		MSE =	15387.87	
Intake from Potential WIC Foods						
Calories (kcal)						
Initial						
White Nonhispanic	10.4877	-37.5415	415.0948	6.4555	-29.0602	422.0773
White Hispanic	181.8146**	27.5162	375.2336	163.0227**	35.5407	378.0175
Black	58.9221	28.6963	306.1119**	48.5862	28.3451	313.8089**
Other	24.3632	-105.1086	406.1209	15.0545	-110.9070	417.6191
	MSE =	118099.1		MSE =	116279.3	
Followup						
White Nonhispanic	98.6594**	168.1261**	376.3799	107.5945**	183.2280**	374.8384
White Hispanic	149.7061**	171.3667**	404.0513	145.6687**	171.3728**	386.5326
Black	151.9722**	89.2852	292.5376*	157.9872**	94.1514	290.3207*
Other	163.1489	216.2062	309.7484	181.8176*	177.8812	286.4783
	MSE =	112078.2		MSE =	109585.8	
Protein (g)						
Initial						
White Nonhispanic	0.4192	-3.0710	22.8951	0.1672	-2.6162	23.3080
White Hispanic	8.6132**	0.5345	20.4364	7.5610**	1.0385	20.8094
Black	3.6413	1.8521	15.1451***	2.9836	1.8918	15.5086***
Other	2.1228	-6.0819	21.1354	1.5020	-6.4918	21.8141
	MSE =	342.0603		MSE =	336.9076	
Followup						
White Nonhispanic	3.9698**	5.5460*	20.6173	4.4272**	6.2096**	20.4391
White Hispanic	6.6322**	8.2585**	21.5377	6.4809**	8.2542**	20.9251
Black	6.5634**	4.5117	15.3466**	6.9301**	4.8451	15.1462**
Other	6.9062	9.7994	16.3621	7.9819	7.9617	15.2354
	MSE =	301.5354		MSE =	295.011	
Fat (g)						
Initial						
White Nonhispanic	-0.2118	-1.7029	21.8976	-0.2532	-1.3452	21.8720
White Hispanic	7.2912**	0.1917	18.7447	6.7044**	0.6398	19.4518
Black	3.4189	0.2622	14.6968***	3.0228	0.2709	14.8705**
Other	2.0103	-5.7876	21.3537	1.0627	-5.9387	22.6160
	MSE =	352.8088		MSE =	348.8511	
Followup						
White Nonhispanic	3.0016**	4.7790*	19.6617	3.3449**	5.3550*	19.4369
White Hispanic	4.8299**	6.3558*	19.8125	4.7501**	6.2324*	19.4052
Black	6.2157**	6.0507	13.9457**	6.6131**	5.8915	13.8241**
Other	4.7243	7.8310	16.1477	5.8358	6.9997	14.9755
	MSE =	299.5912		MSE =	295.0684	

(continued)

Table V-B-9 (continued)

Ethnic Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Carbohydrate (g)						
Initial						
White Nonhispanic	2.9848	-2.2416	32.4413	2.3419	-1.3858	33.8104
White Hispanic	20.9976**	6.2692	31.6979	18.6720**	6.8272	30.4161
Black	3.5845	4.9516	28.9694	2.5569	4.8676	30.1405
Other	-0.6592	-7.2278	33.2778	-0.2531	-7.9324	32.6997
	MSE =	1351.044		MSE =	1327.457	
Followup						
White Nonhispanic	14.5817**	26.8151**	30.0772	15.5781**	28.7769**	30.4384
White Hispanic	21.8571**	21.1676**	35.3964	21.1627**	21.5347**	32.4023
Black	18.3424**	4.2699	26.5285	18.4928**	5.5475	26.5187
Other	24.4834*	26.6420	25.2558	25.4671*	20.5743	23.1935
	MSE =	1685.762		MSE =	1652.776	
Calcium (mg)						
Initial						
White Nonhispanic	1.0647	-77.2465	646.7819	10.9097	-53.8902	637.1490
White Hispanic	192.5153**	-41.6116	480.6071**	183.4694**	-28.0570	503.5072*
Black	82.0056	31.1782	379.9286***	85.6419	42.5596	367.0974***
Other	-26.8076	-166.5674	600.7317	-25.6678	-173.0520	605.0832
	MSE =	301834		MSE =	298260.1	
Followup						
White Nonhispanic	84.1555**	139.5650*	596.0079	99.0043**	158.0839*	584.1930
White Hispanic	177.4669**	223.8549**	491.9625	175.1864**	215.1066*	486.0832
Black	174.1943**	72.5042	384.2019***	187.9650**	85.1430	376.5255***
Other	240.9305	303.8899	387.1449	274.8234*	269.1043	358.5606
	MSE =	256102.4		MSE =	252037.9	
Iron (mg)						
Initial						
White Nonhispanic	0.5779	0.7893	1.9076	0.2752	0.7268	2.2113
White Hispanic	2.3984**	0.4612	2.2849	2.2568**	0.4374	2.3262
Black	0.5667	-0.5383	2.0966	0.1643	-0.8217	2.3881
Other	0.8777	-1.0138	1.7264	0.9736	-0.9568	1.6609
	MSE =	40.22123		MSE =	39.93085	
Followup						
White Nonhispanic	4.0559**	8.3624**	1.8680	4.3144**	8.6862**	1.8319
White Hispanic	3.5178**	2.9653	2.7839	3.2054**	2.9232	2.4919
Black	3.0664*	0.5755	2.1276	3.0138*	0.5592	2.1786
Other	4.4736	6.9427	1.3487	4.6711	6.2578	1.2765
	MSE =	127.2725		MSE =	126.5001	
Magnesium (mg)						
Initial						
White Nonhispanic	7.6873	-6.8325	80.4770	6.2284	-5.8278	82.9738
White Hispanic	40.9008**	9.8316	75.7206	35.6328**	12.2266	74.5536
Black	13.3795	12.5589	55.5660**	10.2435	13.2968	58.7033**
Other	3.2446	-17.3991	73.5565	0.8474	-19.2500	76.3522
	MSE =	6227.911		MSE =	6116.872	

(continued)

Table V-B-9 (continued)

Ethnic Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Phosphorus (mg)						
Followup						
White Nonhispanic	22.4982**	38.5644**	74.4840	23.7559**	41.5450**	75.4194
White Hispanic	33.5626**	36.3095**	85.6530	32.5391**	36.7436**	80.8884
Black	29.0642**	6.5365	60.8659	28.9468**	8.2074	60.9462
Other	46.9849*	43.7084	56.5159	48.4580*	34.5680	53.6156
	MSE =	6072.146		MSE =	5958.393	
Initial						
White Nonhispanic	-2.7757	-79.0011	600.8159	-3.1757	-64.5082	603.7491
White Hispanic	210.2788**	-8.0714	485.0429*	189.8559**	5.6155	500.4806
Black	93.3173	47.5058	372.5810***	84.9323	53.6762	372.4761***
Other	39.6139	-132.5398	537.3359	27.0758	-142.4645	554.1959
	MSE =	236629.9		MSE =	233673.1	
Followup						
White Nonhispanic	96.3387**	154.3124**	538.3891	107.9044**	171.8429**	532.2736
White Hispanic	163.7919**	215.2010**	515.4581	160.7168**	211.3935**	503.8730
Black	173.3736**	91.2761	376.2733**	182.0394**	99.7363	371.7284**
Other	216.8528	247.7129	389.3838	244.6108*	204.8582	362.4598
	MSE =	203627.7		MSE =	199775	
Vitamin A (IU)						
Initial						
White Nonhispanic	92.3626	155.6659	1141.0837	73.1259	190.7211	1171.0472
White Hispanic	682.2366**	27.3682	865.1357	695.1317**	36.6824	920.7406
Black	202.8459	-13.1445	889.8454	133.7069	-46.1071	883.8652
Other	183.1836	-314.1419	1114.7714	215.0806	-346.0932	1101.4816
	MSE =	2985306		MSE =	2970174	
Followup						
White Nonhispanic	1018.3179**	2283.0925**	1088.1768	1113.0771**	2383.0454**	1031.8683
White Hispanic	1019.2721**	859.3764	976.0001	972.7733**	829.3674	927.3981
Black	943.5311**	216.6207	903.8369	976.5122**	264.8133	886.9566
Other	1302.3241	2082.5214	857.0093	1429.7388	1922.6937	774.3578
	MSE =	9366300		MSE =	9298166	
Thiamin (mg)						
Initial						
White Nonhispanic	0.0433	0.0655	0.2940	0.0309	0.0719	0.3104
White Hispanic	0.2449**	0.0474	0.2553	0.2386**	0.0482	0.2603
Black	0.0526	0.0138	0.2638	0.0287	-0.0007	0.2732
Other	0.0353	-0.0922	0.3023	0.0468	-0.0977	0.2953
	MSE =	0.2851418		MSE =	0.2834169	
Followup						
White Nonhispanic	0.3325**	0.7435**	0.2818	0.3588**	0.7755**	0.2733
White Hispanic	0.3555**	0.2996	0.3032	0.3348**	0.2933	0.2756
Black	0.2917**	0.0203	0.2771	0.2949**	0.0349	0.2770
Other	0.4398	0.6442	0.2275	0.4647	0.5829	0.2112
	MSE =	0.8803679		MSE =	0.8738652	

(continued)

Table V-B-9 (continued)

Ethnic Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Riboflavin (mg)						
Initial						
White Nonhispanic	0.0518	0.0391	0.8618	0.0466	0.0646	0.8671
White Hispanic	0.3804**	-0.0297	0.6648	0.3719**	-0.0143	0.7073
Black	0.1377	0.0126	0.5453**	0.1096	0.0063	0.5427**
Other	0.0273	-0.2967	0.8343	0.0290	-0.3150	0.8450
	MSE =	0.7857932		MSE =	0.7796618	
Followup						
White Nonhispanic	0.4084**	0.8416**	0.8156	0.4459**	0.8796**	0.7942
White Hispanic	0.4459**	0.4642*	0.7184	0.4202**	0.4463*	0.6960
Black	0.3972**	0.0926	0.6157	0.4107**	0.1148	0.6119
Other	0.5959	0.9788	0.5687	0.6479	0.9086	0.5430
	MSE =	1.522806		MSE =	1.505003	
Niacin (mg)						
Initial						
White Nonhispanic	0.7323	1.2467	1.3481	0.5909	1.2237	1.4644
White Hispanic	1.9399**	0.4700	0.9427	2.0641**	0.4849	1.0630
Black	0.5424	-0.4150	1.2270	0.2691	-0.5752	1.3306
Other	0.6516	-0.4682	1.2291	0.7870	-0.4322	1.2117
	MSE =	38.40287		MSE =	38.23383	
Followup						
White Nonhispanic	3.9208**	9.2277**	1.5217	4.2066**	9.5725**	1.3894
White Hispanic	3.2732**	2.3663	1.5240	3.0386*	2.2514	1.3751
Black	2.9715*	0.0770	1.6032	2.9908*	0.1256	1.5959
Other	4.9063	7.4078	0.8758	5.1586	7.0155	0.7812
	MSE =	140.7227		MSE =	140.2229	
Vitamin B6 (mg)						
Initial						
White Nonhispanic	0.0434	0.0774	0.3101	0.0199	0.0732	0.3373
White Hispanic	0.2755**	0.0192	0.2833	0.2685**	0.0222	0.2864
Black	0.0972	0.0391	0.2161	0.0523	0.0160	0.2425
Other	0.0790	-0.1024	0.2641	0.0697	-0.1142	0.2744
	MSE =	0.4450355		MSE =	0.4425896	
Followup						
White Nonhispanic	0.4210**	0.9216**	0.2821	0.4479**	0.9549**	0.2783
White Hispanic	0.3920**	0.2864	0.3525	0.3500**	0.2754	0.3255
Black	0.3287*	0.0003	0.2840	0.3213*	0.0114	0.2924
Other	0.5242	0.7943	0.1963	0.5481	0.7240	0.1926
	MSE =	1.489495		MSE =	1.480305	
Vitamin B12 (mcg)						
Initial						
White Nonhispanic	0.1399	0.2313	2.1135	0.1068	0.2881	2.1514
White Hispanic	1.0318**	-0.0412	1.6718	1.0131**	-0.0101	1.7961
Black	0.3445	-0.0483	1.4161	0.2327	-0.1006	1.4209
Other	0.2262	-0.8107	2.0761	0.2269	-0.8784	2.1099
	MSE =	6.149339		MSE =	6.103569	

(continued)

Table V-B-9 (continued)

Ethnic Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Followup						
White Nonhispanic	1.3167**	2.6986**	2.0034	1.4287**	2.8045**	1.9401
White Hispanic	1.3121**	1.2994*	1.8032	1.2346**	1.2529	1.7443
Black	1.1509**	0.3296	1.5936	1.1810**	0.3845	1.5844
Other	1.6181	2.8970	1.5401	1.7653	2.7019	1.4844
	MSE =	15.47104		MSE =	15.32918	
Vitamin C (mg)						
Initial						
White Nonhispanic	4.2761	3.0678	34.2850	5.1757	5.6756	35.7959
White Hispanic	34.5838**	21.2440	34.2907	32.7070**	21.1253	30.3077
Black	-1.8070	11.8025	54.4884	-1.3426	12.1015	53.5437
Other	-4.1056	-0.3158	52.0506	-0.3236	-2.0805	47.8346
	MSE =	7708.939		MSE =	7625.627	
Followup						
White Nonhispanic	26.5077**	60.8788**	31.0797	29.1463**	65.0981**	30.7580
White Hispanic	49.2077**	39.9546*	39.5787	50.2793**	40.9624*	33.3833
Black	36.4722**	11.5661	41.0821	38.5898**	15.9119	39.4963
Other	34.5259	39.5332	48.4087	37.8090	29.4281	41.6636
	MSE =	10934.57		MSE =	10870.03	

Number of Subjects

Ethnicity	WIC Status			
	WIC	WIC/Control	Control	Total
White Nonhispanic	1,372	73	300	1,745
White Hispanic	448	53	113	614
Black	876	44	100	1,020
Other	66	11	17	94
Total	2,762	181	530	3,473

* p < 0.05.

** p < 0.01.

*** p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/Control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control group and differences from Control group means for WIC and WIC/Control groups.

^bInitial interviews controlled for duration of gestation at registration. Followup interviews controlled for initial nutrient intake and duration of gestation.^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews adjusted for initial nutrient intake, duration of gestation, and maternal characteristics at registration into study. See Appendix V-A-3 for full covariate list.

Table V-B-10

Mean Daily Dietary Intake at Initial and Followup Interviews by WIC Status^a and Marital Status

Marital status	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Total Intake Per Day						
Calories (kcal)						
Initial						
Not Married	-4.0330	117.0136	2037.7088	12.3289	117.6785	2007.1081
Married	-57.5089	-50.1421	1985.6254	-36.7024	-17.5643	1987.3685
	MSE =	832558.1		MSE =	812373.8	
Followup						
Not Married	34.7046	138.9631	1972.2748	65.3999 *	142.2227	1946.6808
Married	120.5794	131.1952	1893.3059	148.7456 *	129.7529	1872.2167
	MSE =	677640		MSE =	658829.9	
Protein (g)						
Initial						
Not Married	0.4567	-3.9596	81.6066	0.4162	-3.7434	81.0123
Married	-2.9745	0.2287	79.8617	-2.5512	1.2087	80.1813
	MSE =	1693.18		MSE =	1657.192	
Followup						
Not Married	0.8085	5.4118	79.1867	2.3868	6.4828	77.4215
Married	5.8223	5.4945	75.1461	7.6247 *	5.6764	74.2172
	MSE =	1607.207		MSE =	1552.313	
FAT (g)						
INITIAL						
Not Married	-2.1811	-1.0658	88.7538	-1.0521	-0.6137	86.6093
Married	-2.5566	-5.1745	84.0270	-1.3403	-2.2805	84.2883
	MSE =	2380.932		MSE =	2317.176	
Followup						
Not Married	-0.9485	4.1080	83.2186	1.3325	4.8025	81.4758
Married	6.4930	2.2851	77.1844	7.4969	4.1003	76.1492
	MSE =	1959.656		MSE =	1913.269	
Carbohydrate (g)						
Initial						
Not Married	3.7226	37.0681 **	232.3385	5.6557	36.2848 **	229.9843
Married	-5.5826	-3.0954	231.6620	-3.0129	-2.1695	230.5796
	MSE =	13011.18		MSE =	12803.82	
Followup						
Not Married	10.3438 *	19.7842	230.9324	11.5787 **	18.1822	229.9963
Married	9.9640	21.2852	228.9632	13.3021	17.1998	226.6362
	MSE =	11071.46		MSE =	10817.52	
Calcium (mg)						
Initial						
Not Married	-15.5041	28.2346	961.3027	36.8397	66.6084	947.5420
Married	31.3103	-120.6091	936.9376	50.6559	-69.2039	884.8842
	MSE =	434222.5		MSE =	418087.8	

(continued)

Table V-B-10 (continued)

Marital status	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
Not Married	0.7292	3.7026 **	5.9333	0.9941 *	3.9788 **	5.7697
Married	1.2624	0.3598	5.2400	1.5650	0.3178	4.9302
	MSE =	154.599		MSE =	153.8883	
Vitamin C (mg)						
Initial						
Not Married	4.7084	42.3937 **	125.2325	1.6290	42.0561 **	127.1116
Married	4.2870	-22.4880	115.8892	9.0490	-27.7651	113.2974
	MSE =	14950.58		MSE =	14482.19	
Followup						
Not Married	28.2475 **	40.1056 **	115.3097	25.1633 **	41.0374 **	115.7802
Married	32.5001 **	21.6852	111.2358	38.8481 **	15.5453	108.9191
	MSE =	17477.98		MSE =	17181.3	
<u>Total Intake Adjusted for Caloric Intake</u>						
Protein (g)						
Initial						
Not Married	0.6104	-8.4183 **	79.9119	-0.0531	-8.2226 **	80.4842
Married	-0.7832	2.1393	80.1516	-1.1542	1.8772	80.4045
	MSE =	484.4981		MSE =	480.3703	
Followup						
Not Married	-0.4278	-2.0703	80.2027	-0.2138	-1.0104	79.6312
Married	1.0902	0.8888	79.4835	1.6974	1.0149	79.3833
	MSE =	525.6029		MSE =	518.8613	
Fat (g)						
Initial						
Not Married	-1.9877 *	-6.6767 **	86.6211	-1.6416 *	-6.2407 **	85.9459
Married	0.2011	-2.7702	84.3919	0.4147	-1.4406	84.5687
	MSE =	466.7267		MSE =	459.8513	
Followup						
Not Married	-2.9382 **	-4.0363	84.8137	-2.0933 **	-3.4354	84.2515
Married	1.0881	-4.1954	82.2186	0.7184	-2.1967	82.2213
	MSE =	438.6299		MSE =	423.1647	
Carbohydrate (g)						
Initial						
Not Married	4.1524	24.5969 **	227.5984	4.3373	23.7011 **	228.5007
Married	0.5466	2.2487	232.4729	0.9118	-0.2913	231.2068
	MSE =	3555.099		MSE =	3515.745	
Followup						
Not Married	7.6459 **	9.7421	232.5995	5.5717 *	7.4836	234.7240
Married	-2.1769	8.2895	240.1825	-1.8559	3.6410	239.8339
	MSE =	3605.14		MSE =	3531.385	

(continued)

Table V-B-10 (continued)

Marital status	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Calcium (mg)						
Initial						
Not Married	-13.6174	-26.5084	940.4957	31.0787	11.6195	941.0588
Married	58.2149	-97.1508	940.4971	67.8062	-60.9965	887.6249
	MSE =	252073.8		MSE =	240774.6	
Followup						
Not Married	25.2722	69.9356	930.4591	56.2349 **	96.9365	927.0025
Married	112.5723 **	84.8621	929.2237	126.1266 **	109.7124 *	891.4682
	MSE =	222962.7		MSE =	217262	
Iron (mg)						
Initial						
Not Married	0.5355	0.7017	13.8411	0.1696	0.4671	14.1088
Married	-0.0425	-0.9533	14.6615	-0.1375	-1.4018	14.8069
	MSE =	54.97797		MSE =	54.54532	
Followup						
Not Married	2.3995 **	3.8836 **	14.8968	2.1938 **	3.9609 **	15.0151
Married	2.2841 *	2.3612	14.6570	2.4017 *	2.4138	14.6123
	MSE =	132.6369		MSE =	132.0125	
Magnesium (mg)						
Initial						
Not Married	10.9415 **	11.3048	245.2208	15.2511 **	14.8103	247.1623
Married	0.1762	-17.2336	266.4500	2.8575	-15.6030	257.9773
	MSE =	8127.869		MSE =	7887.225	
Followup						
Not Married	12.1121 **	0.3162	250.0343	14.0974 **	3.9544	252.4861
Married	10.3596	1.6806	262.9181	13.6346	2.4050	255.5808
	MSE =	6941.921		MSE =	6750.117	
Phosphorus (mg)						
Initial						
Not Married	-3.0047	-75.4530	1331.7070	20.8101	-50.9837	1342.5382
Married	-0.2300	-64.7074	1368.9290	5.0814	-47.1698	1328.6107
	MSE =	152648.2		MSE =	147025.6	
Followup						
Not Married	33.8396 *	44.0191	1313.4350	52.3764 **	65.3937	1312.6140
Married	68.8856 *	54.3989	1332.4185	78.2598 *	64.1877	1307.2802
	MSE =	133894.8		MSE =	129748.7	
Vitamin A (IU)						
Initial						
Not Married	667.7805	616.6240	5774.1743	536.3935	666.4747	5859.4018
Married	196.6068	-1322.3859	5685.3552	380.3940	-1526.4398	5576.3503
	MSE =	79531878		MSE =	78943666	

(continued)

Table V-B-10 (continued)

Marital status	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
Not Married	238.0124	1105.9748	6548.2776	229.7878	1276.6118	6516.4755
Married	511.3936	-60.1104	6376.5764	709.1225	-324.8377	6266.8509
	MSE =	77273038		MSE =	76343057	
Thiamin (mg)						
Initial						
Not Married	0.0723 *	0.1560	1.4417	0.0462	0.1376	1.4483
Married	0.0650	-0.0349	1.4540	0.0660	-0.0677	1.4724
	MSE =	0.5502906		MSE =	0.5434528	
Followup						
Not Married	0.2685 **	0.4033 **	1.4828	0.2338 **	0.4023 **	1.5060
Married	0.2843 **	0.3075 *	1.4644	0.2839 **	0.2991 *	1.4707
	MSE =	1.04533		MSE =	1.037915	
Riboflavin (mg)						
Initial						
Not Married	0.0523	0.0971	1.9571	0.0846	0.1361	1.9726
Married	0.0863	-0.2093	2.0121	0.1005	-0.1758	1.9505
	MSE =	1.335385		MSE =	1.324122	
Followup						
Not Married	0.1201 *	0.3714 *	2.1741	0.1459 **	0.4199 **	2.1647
Married	0.3557 **	0.2786	1.9990	0.3721 **	0.3229	1.9677
	MSE =	2.040705		MSE =	2.021769	
Niacin (mg)						
Initial						
Not Married	0.3117	0.8048	19.1690	-0.0562	0.6251	19.2495
Married	-0.6320	-0.3395	19.7053	-0.5637	-0.5232	19.9197
	MSE =	98.28742		MSE =	97.51713	
Followup						
Not Married	1.7545 **	3.4462 *	20.2068	1.6732 **	3.5997 *	20.0032
Married	2.3036	2.4907	19.2615	2.4406 *	2.6281	19.4382
	MSE =	183.9466		MSE =	183.2116	
Vitamin B6 (mg)						
Initial						
Not Married	0.0528	0.2244 *	1.5525	0.0143	0.1996	1.5816
Married	-0.0896	-0.1453	1.6836	-0.0833	-0.1882	1.6852
	MSE =	0.8750419		MSE =	0.8674011	
Followup						
Not Married	0.2450 **	0.3097 *	1.6560	0.2411 **	0.3225 *	1.6444
Married	0.2195	0.1208	1.6690	0.2508 *	0.1032	1.6614
	MSE =	1.66663		MSE =	1.652468	

(continues)

Table V-B-10 (continued)

Marital status	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Vitamin B12 (mcg)						
Initial						
Not Married	-0.1848	-1.3914	5.7679	-0.0519	-1.2883	5.7757
Married	-0.5178	-1.8869	5.8243	-0.3229	-1.7476	5.5318
	MSE =	105.8834		MSE =	106.1685	
Followup						
Not Married	0.6094	3.0881 *	6.0002	0.7540	3.3553 *	5.9531
Married	0.8832	-0.0918	5.6286	1.0714	-0.1527	5.3873
	MSE =	145.7427		MSE =	145.228	
Vitamin C (mg)						
Initial						
Not Married	4.9167	36.3491 **	122.9350	0.9913	35.9690 **	126.3939
Married	7.2578	-19.8978	116.2823	10.9475	-26.8565 *	113.6008
	MSE =	12732.55		MSE =	12312.19	
Followup						
Not Married	26.7579 **	33.2709 *	116.1632	21.7413 **	34.0495 *	118.4376
Married	27.3454 *	14.7188	116.4041	32.1799 **	7.9945	115.0332
	MSE =	15609.49		MSE =	15374.28	
Intake from Potential WIC Foods						
Calories (kcal)						
Initial						
Not Married	46.4879 **	52.0607	374.2952	50.8177 **	58.5893	385.9298
Married	40.6935	-86.3262 *	395.2976	44.2660	-90.3138 *	375.5417
	MSE =	121120.3		MSE =	116395.9	
Followup						
Not Married	86.8874 **	149.3211 **	373.7111	96.6315 **	155.4869 **	371.2943
Married	140.4488 **	145.8890 **	358.0267	155.4448 **	138.9806 **	340.2573
	MSE =	113105.5		MSE =	109471.5	
Protein (g)						
Initial						
Not Married	2.6342 **	1.6930	19.8161	3.0235 **	2.2144	20.4879
Married	1.5290	-5.0150 *	21.6937	1.6668	-4.9671 *	20.4541
	MSE =	351.6197		MSE =	337.1508	
Followup						
Not Married	3.0682 **	5.5969 **	20.1783	3.8171 **	6.0061 **	19.9395
Married	6.1590 **	6.4044 **	19.3462	6.9015 **	6.0653 **	18.3489
	MSE =	304.7543		MSE =	294.515	
Fat (g)						
Initial						
Not Married	1.1229	0.8548	20.0135	1.6598 *	1.2648	20.2288
Married	1.7594	-4.2959	19.7294	2.0587	-4.0710	18.7359
	MSE =	358.814		MSE =	349.0685	

(continued)

Table V-B-10 (continued)

Marital status	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
Not Married	1.6183 *	5.0869 **	19.4446	2.3707 **	5.3530 **	19.0545
Married	5.6501 **	5.3598 **	17.7809	6.0901 **	5.1862 *	17.1823
	MSE =	300.7973		MSE =	294.3399	
Carbohydrate (g)						
Initial						
Not Married	6.6832 **	9.9791 *	29.4900	6.2269 **	10.2205 *	31.2321
Married	5.0519	-7.0928	33.4454	5.1449	-8.5577 *	31.9240
	MSE =	1383.895		MSE =	1328.123	
Followup						
Not Married	15.8063 **	21.5030 **	30.0858	15.8229 **	22.1505 **	30.6822
Married	17.2286 **	17.9832 **	30.7960	19.3220 **	17.0019 **	28.5171
	MSE =	1706.134		MSE =	1655.16	
Calcium (mg)						
Initial						
Not Married	33.2612	22.8169	544.3206	73.4143 **	54.9912	542.5323
Married	36.0137	-178.3032 **	571.4820	49.3361	-147.8218 *	523.1795
	MSE =	309140.4		MSE =	298170.9	
Followup						
Not Married	53.8259 **	138.7247 *	549.1559	82.0730 **	155.6146 **	539.4606
Married	170.5310 **	120.1504 *	510.1541	187.7669 **	129.4926 *	480.4112
	MSE =	258535.1		MSE =	251666.9	
Iron (mg)						
Initial						
Not Married	0.8079 **	0.8736	1.8310	0.4257	0.6697	2.1831
Married	1.0326	-0.2623	2.1766	0.9104	-0.7267	2.2649
	MSE =	40.59436		MSE =	39.95675	
Followup						
Not Married	3.9498 **	6.1282 **	1.8074	3.9994 **	6.2478 **	1.9134
Married	3.4136 **	3.5803 **	2.3289	3.7209 **	3.7971 **	1.9102
	MSE =	127.6231		MSE =	126.7667	
Magnesium (mg)						
Initial						
Not Married	15.4166 **	18.3421 *	68.3755	16.3368 **	20.0023 *	71.8381
Married	9.9222	-17.6652	79.5546	9.8605	-17.9547	74.8441
	MSE =	6412.939		MSE =	6118.278	
Followup						
Not Married	20.2905 **	30.7820 **	74.3341	21.3775 **	32.0320 **	75.0545
Married	29.3826 **	29.2717 **	73.6202	32.7438 **	26.9874 **	69.2801
	MSE =	6154.893		MSE =	5957.749	

(continue)

Table V-B-10 (continued)

Marital status	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Phosphorus (mg)						
Initial						
Not Married	52.7811 **	37.0254	511.3844	73.4613 **	56.9793	521.1608
Married	33.1401	-148.3393 *	546.7955	39.5472	-134.6292 *	510.2925
	MSE =	242225.6		MSE =	233834.5	
Followup						
Not Married	71.3481 **	144.8298 **	513.8087	91.9953 **	156.8610 **	506.6599
Married	162.0136 **	147.6940 **	486.5838	178.5182 **	146.5731 **	462.3114
	MSE =	205343.6		MSE =	199515	
Vitamin A (IU)						
Initial						
Not Married	163.2930 *	315.2392	1017.0061	141.4977 *	319.9355	1063.8481
Married	265.0574	-315.4612	1048.4454	288.4054	-348.5197	1000.3163
	MSE =	2994485		MSE =	2972557	
Followup						
Not Married	906.9062 **	1682.8986 **	1062.3226	966.6555 **	1755.0919 **	1050.6087
Married	1063.6851 **	917.1544 *	989.7849	1158.6614 **	1002.5876 **	866.4558
	MSE =	9397400		MSE =	9315095	
Thiamin (mg)						
Initial						
Not Married	0.0677 **	0.1389 *	0.2681	0.0526 **	0.1333 *	0.2882
Married	0.0916	-0.0776	0.2908	0.0927 *	-0.1010	0.2830
	MSE =	0.2870802		MSE =	0.2833771	
Followup						
Not Married	0.3182 **	0.5436 **	0.2832	0.3255 **	0.5610 **	0.2887
Married	0.3320 **	0.3077 **	0.2845	0.3630 **	0.3232 **	0.2461
	MSE =	0.8834196		MSE =	0.8761861	
Riboflavin (mg)						
Initial						
Not Married	0.0937 **	0.1317	0.7328	0.1185 **	0.1566	0.7492
Married	0.1205	-0.2239 *	0.7805	0.1333	-0.2106 *	0.7278
	MSE =	0.7992947		MSE =	0.7801675	
Followup						
Not Married	0.3140 **	0.6410 **	0.7889	0.3550 **	0.6767 **	0.7799
Married	0.4780 **	0.3986 **	0.7190	0.5161 **	0.4336 **	0.6583
	MSE =	1.532339		MSE =	1.505334	
Niacin (mg)						
Initial						
Not Married	0.6063 *	1.3203	1.1860	0.4405	1.2286	1.3385
Married	1.2023 *	-0.4477	1.2783	1.1877 *	-0.6247	1.2876
	MSE =	38.34849		MSE =	38.18521	

(continue)

Table V-B-10 (continued)

Marital status	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
Not Married	3.5488 **	6.4534 **	1.4563	3.6526 **	6.6435 **	1.4900
Married	3.5868 **	3.1309 *	1.5631	3.8610 **	3.5001 *	1.1897
	MSE =	141.2668		MSE =	140.6438	
Vitamin B6 (mg)						
Initial						
Not Married	0.0900 **	0.1516 *	0.2539	0.0632 *	0.1368	0.2878
Married	0.0981	-0.0894	0.3108	0.0937	-0.1220	0.3039
	MSE =	0.4488238		MSE =	0.442817	
Followup						
Not Married	0.3812 **	0.6549 **	0.2900	0.3875 **	0.6750 **	0.2968
Married	0.3948 **	0.3451 *	0.2990	0.4235 **	0.3648 *	0.2614
	MSE =	1.49503		MSE =	1.48412	
Vitamin B12 (mcg)						
Initial						
Not Married	0.2445 *	0.3620	1.8367	0.2626 **	0.3951	1.8994
Married	0.3505	-0.4947	1.9276	0.3793	-0.5060	1.8184
	MSE =	6.227771		MSE =	6.113816	
Followup						
Not Married	1.0310 **	2.0751 **	1.9727	1.1407 **	2.1775 **	1.9475
Married	1.4275 **	1.1952 *	1.7878	1.5366 **	1.3041 **	1.6201
	MSE =	15.5413		MSE =	15.33704	
Vitamin C (mg)						
Initial						
Not Married	7.5028 *	27.9742 **	40.3605	5.1085	27.3741 **	41.8118
Married	11.0612	-6.1271	37.4469	13.0575	-10.3156	36.7704
	MSE =	7791.928		MSE =	7609.532	
Followup						
Not Married	33.4437 **	50.4390 **	37.2253	31.7480 **	51.6363 **	38.4862
Married	34.1271 **	34.4780 **	34.0984	39.2073 **	31.0990 *	30.4467
	MSE =	11048.62		MSE =	10882.53	
Marital status	WIC	WIC/control	Control	Total		
Not married	1,502	95	234	1,831		
Married	1,260	86	296	1,642		
Total	2,762	181	530	3,473		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/Control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for control group and differences from control group means for WIC and WIC/Control groups.

^bInitial interviews controlled for duration of gestation at registration. Follow-up interviews controlled for initial nutrient intake and duration of gestation at both interviews.^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews adjusted for initial nutrient intake, duration of gestation at both interviews and maternal characteristics at registration into study. See Appendix V-A-3 for full covariate list.

Table V-B-11

Mean Daily Dietary Intake at Initial and Followup Interviews by WIC Status^a and Maternal Education

Maternal education (yrs)	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Total Intake Per Day						
Calories (kcal)						
Initial						
<12	-4.7880	106.4981	1986.9439	-22.8853	78.4593	2000.3081
12+	-34.1681	-43.9970	2023.5667	-7.8846	-6.1211	2005.8828
	MSE =	835270.2		MSE =	812657.5	
Followup						
<12	89.0281 **	132.5607	1910.4548	112.4675 **	114.7432	1885.2988
12+	82.5822	177.1623 *	1940.3751	113.9343	204.4070 *	1923.3900
	MSE =	677773.6		MSE =	658848.4	
Protein (g)						
Initial						
<12	-0.9750	-0.0351	79.5551	-2.8510	-1.4635	81.2413
12+	-0.3264	-3.6523	81.3835	0.2392	-2.9359	80.8677
	MSE =	1697.297		MSE =	1657.686	
Followup						
<12	5.5167 **	8.4261	73.6832	6.4922 **	7.7971	72.8417
12+	2.8034	4.7613	79.1329	4.4077	6.0318	77.9458
	MSE =	1605.615		MSE =	1552.966	
Fat (g)						
Initial						
<12	-0.0519	3.7056	83.0166	-0.8886	2.7919	83.7915
12+	-2.4379	-10.0472	88.2256	-1.4001	-8.0058	87.3269
	MSE =	2384.479		MSE =	2317.464	
Followup						
<12	4.6922 **	4.2901	77.5300	5.8866 **	4.0924	76.5418
12+	2.3157	5.3058	81.4250	3.6863	7.3743	80.3262
	MSE =	1960.923		MSE =	1915.315	
Carbohydrate (g)						
Initial						
<12	0.3544	19.7156	233.8822	-0.2006	16.2059	233.8182
12+	-2.4952	13.1797	230.6716	1.5141	17.5665	228.2942
	MSE =	13043.84		MSE =	12820.62	
Followup						
<12	5.1094	14.0483	234.7660	7.2845	10.6419	231.7613
12+	14.0695	26.7771 *	226.5403	17.6322	28.1107 *	225.3950
	MSE =	11069.86		MSE =	10825.13	

(continues)

Table V-B-11 (continued)

Maternal education (yrs)	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Calcium (mg)						
Initial						
<12	16.8754	24.3453	931.5459	33.1411	49.4517	923.2930
12+	6.7849	-133.7898	958.5316	51.5312	-84.0728	914.9246
	MSE =	434442.8		MSE =	418197.1	
Followup						
<12	117.4468 **	225.4143 **	852.8606	144.2119 **	233.3712 **	838.4519
12+	95.6225	61.1242	934.8273	126.6030 *	88.8359	900.9109
	MSE =	343935.2		MSE =	334239.2	
Iron (mg)						
Initial						
<12	-0.2594	0.5908	14.5653	-0.5099	0.2250	14.6719
12+	0.3009	-0.8309	14.2933	0.2450	-0.8635	14.4771
	MSE =	92.1319		MSE =	91.46644	
Followup						
<12	2.7719 **	5.0740 **	14.0748	2.7582 **	4.9181 **	14.0516
12+	3.2820 **	3.3952 *	14.3260	3.6146 **	3.7551 **	14.1055
	MSE =	177.9893		MSE =	175.1369	
Magnesium (mg)						
Initial						
<12	3.4265	11.2177	253.0193	4.4889	10.6750	254.1336
12+	1.3509	-9.8290	262.9565	8.5906	-4.1018	254.9869
	MSE =	20643.51		MSE =	20162.86	
Followup						
<12	20.0892 **	25.7484	244.4766	24.7367 **	25.5392	242.5236
12+	19.8960	9.9551	252.3823	26.8317 *	14.1543	244.8109
	MSE =	16897.39		MSE =	16355.98	
Phosphorus (mg)						
Initial						
<12	-14.2091	26.8797	1346.1531	-13.0212	30.0015	1346.0809
12+	-19.7145	-152.4476	1373.6918	15.6181	-110.2568	1343.8172
	MSE =	509742.7		MSE =	495947.4	
Followup						
<12	128.7300 **	203.8706 *	1232.0946	154.3303 **	203.8583 *	1209.2679
12+	89.2842	116.1811	1306.8742	121.3367 *	141.8012 *	1283.3380
	MSE =	412518.8		MSE =	398185.6	
Vitamin A (IU)						
Initial						
<12	709.8818 *	-97.8919	5408.6334	511.5471	-337.2133	5770.0724
12+	216.3203	39.2523	6006.5826	320.4655	-28.8053	5721.2410
	MSE =	85228611		MSE =	84503660	

(continued)

Table V-B-11 (continued)

Maternal education (yrs)	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
<12	893.8059 *	2352.7159 *	5551.1580	846.0630 *	2112.7428	6001.1412
12+	610.2562	-462.7945	6733.5697	789.8831	-641.5041	6151.0154
	MSE =	83621050		MSE =	82568275	
Thiamin (mg)						
Initial						
<12	-0.0164	0.1165	1.5181	-0.0416	0.0794	1.5211
12+	0.1007	-0.0023	1.4209	0.1159	0.0139	1.4315
	MSE =	0.9942902		MSE =	0.9793709	
Followup						
<12	0.2805 **	0.4595 **	1.4545	0.2729 **	0.4402 **	1.4552
12+	0.3729 **	0.4456 **	1.4062	0.3975 **	0.4768 **	1.3938
	MSE =	1.470867		MSE =	1.442394	
Riboflavin (mg)						
Initial						
<12	0.0010	0.1124	2.0010	0.0054	0.1173	1.9919
12+	0.0868	-0.2193	2.0047	0.1317	-0.1461	1.9737
	MSE =	2.152709		MSE =	2.128842	
Followup						
<12	0.3598 **	0.6864 **	1.9204	0.3781 **	0.6904 **	1.9145
12+	0.3208 *	0.2959	2.0657	0.3787 *	0.3539	2.0083
	MSE =	2.852154		MSE =	2.797677	
Niacin (mg)						
Initial						
<12	-0.7911	1.2331	19.5920	-1.1717 *	0.6617	19.8844
12+	0.1099	-0.4370	19.6282	0.1056	-0.2919	19.6918
	MSE =	168.1944		MSE =	165.6171	
Followup						
<12	2.7534 **	5.0992 *	18.6187	2.7613 **	4.8671 *	18.5908
12+	3.2912 *	4.0361 *	19.1760	3.7830 **	4.5346 **	18.8197
	MSE =	258.6496		MSE =	254.4098	
Vitamin B6 (mg)						
Initial						
<12	-0.0706	0.1848	1.6387	-0.0998 *	0.1336	1.6519
12+	-0.0118	-0.1239	1.6374	-0.0107	-0.1192	1.6526
	MSE =	1.389874		MSE =	1.375114	
Followup						
<12	0.2235 **	0.3747 *	1.6290	0.2421 **	0.3488	1.6182
12+	0.3832 **	0.2666	1.5812	0.4373 **	0.2982	1.5351
	MSE =	2.211417		MSE =	2.167911	

(continued)

Table V-B-11 (continued)

Maternal education (yrs)	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Vitamin B12 (mcg)						
Initial						
<12	0.0334	-0.6989	5.2618	0.0076	-0.8855	5.3250
12+	-0.6223	-2.3100 *	6.2298	-0.4507	-2.1175	6.0570
	MSE =	111.5003		MSE =	111.6744	
Followup						
<12	1.3378 **	3.5416 *	4.9833	1.3080 **	3.3880 *	5.3856
12+	0.9848	0.4466	5.9291	1.2346	0.3942	5.3184
	MSE =	154.6761		MSE =	153.9594	
Vitamin C (mg)						
Initial						
<12	3.8157	9.7187	121.8556	-0.4394	2.2646	127.4858
12+	6.4083	15.0413	118.8311	9.2119	15.2977	114.8266
	MSE =	15044.01		MSE =	14553.45	
Followup						
<12	28.5006 **	40.0683 *	112.9429	28.5077 **	37.8272 *	115.3005
12+	33.1724 **	17.5698	113.1352	36.4950 **	14.9220	108.1808
	MSE =	17474.44		MSE =	17209.43	
<u>Total Intake Adjusted</u>						
<u>for Caloric Intake</u>						
Protein (G)						
Initial						
<12	-0.7926	-4.0922	79.7948	-1.9803 *	-4.4486	80.9722
12+	0.9752	-1.9762	80.2280	0.5392	-2.7030	80.3865
	MSE =	485.2416		MSE =	481.5205	
Followup						
<12	1.8675 *	2.0716	77.2698	1.7847 *	2.2180	77.5675
12+	-0.1556	-2.4731	81.5094	0.0844	-2.4559	81.0485
	MSE =	524.1878		MSE =	519.3299	
Fat (g)						
Initial						
<12	0.1776	-1.3996	83.3181	0.2055	-0.9591	83.4533
12+	-0.8000	-7.9381 **	86.7716	-1.0231	-7.7132 **	86.7222
	MSE =	465.1908		MSE =	460.1618	
Followup						
<12	0.5814	-2.5160	81.5525	0.7265	-1.7236	81.7435
12+	-1.5857	-4.3321	84.5890	-1.8326	-3.6511	84.3463
	MSE =	438.8835		MSE =	424.9273	
Carbohydrate (g)						
Initial						
<12	0.8649	8.3605	234.5529	2.2475	7.8130	233.0615
12+	1.1479	17.8708 **	227.4375	2.3575	18.2213 **	226.9411
	MSE =	3549.17		MSE =	3522.473	

(continued)

Table V-B-11 (continued)

Maternal education (yrs)	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
<12	-3.9696	1.3140	244.6445	-3.8802	-0.2217	243.8918
12+	5.9125	12.2480	231.5663*	6.2586	10.4932	232.2475*
	MSE =	3600.464		MSE =	3544.704	
Calcium (mg)						
Initial						
<12	19.1071	-25.2949	934.4777	43.8357 *	12.7866	919.9871
12+	22.7112	-113.2822 *	944.3930	55.2158	-81.2123	909.0136
	MSE =	253043		MSE =	240796.5	
Followup						
<12	83.1633 **	161.3134 **	888.6236	104.0393 **	182.9168 **	882.2341
12+	66.2277	-23.0849	957.1232	86.4257 *	-5.3311	927.2180
	MSE =	223569.4		MSE =	217160.4	
Iron (mg)						
Initial						
<12	-0.2275	-0.1195	14.6073	-0.3556	-0.3041	14.6242
12+	0.5288	-0.5375	14.0910	0.2981	-0.8222	14.3918
	MSE =	54.99221		MSE =	54.52751	
Followup						
<12	2.0363 **	3.8634 **	14.8286	1.8520 **	3.8739 **	14.9807
12+	2.7377 **	1.9601	14.7238	2.7651 **	2.0433	14.6948
	MSE =	132.5846		MSE =	131.9849	
Magnesium (mg)						
Initial						
<12	4.0119	-1.8050	253.7885	7.3006 *	1.0354	253.2645
12+	5.5291	-4.4489	259.2474	9.5593	-3.3498	253.4329
	MSE =	8156.325		MSE =	7898.052	
Followup						
<12	10.2101 **	8.3010	254.3295	12.8044 **	11.0843	255.1352
12+	11.4290	-11.4827	259.0994	14.9915 *	-10.6956	252.7949
	MSE =	6964.631		MSE =	6746.176	
Phosphorus (mg)						
Initial						
<12	-11.0795	-42.7326	1350.2645	1.9769	-21.4178	1341.4447
12+	2.6194	-123.6891 **	1353.8647	20.7854	-106.2452 *	1335.5275
	MSE =	152912.7		MSE =	146953.5	
Followup						
<12	70.2058 **	106.4416 *	1291.1586	84.3515 **	123.5456 **	1281.8277
12+	38.9423	-19.1806	1345.9014	53.8446	-8.0567	1330.1041
	MSE =	134216.6		MSE =	129607.5	

(continued)

Table V-B-11 (continued)

Maternal education (yrs)	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Vitamin A (IU)						
Initial						
<12	722.3100 *	-374.3312	5424.9602	571.1571	-541.5790	5751.6457
12+	305.0113	153.4562	5927.8468	341.0028	-12.8613	5688.2936
	MSE =	79623726		MSE =	79013083	
Followup						
<12	651.0587	1865.7311	5808.7524	543.1964	1699.1943	6331.8106
12+	397.3840	-957.9609	6887.8470	465.4377	-1247.3911	6362.3761
	MSE =	77085503		MSE =	76302598	
Thiamin (mg)						
Initial						
<12	-0.0129	0.0388	1.5227	-0.0248	0.0220	1.5159
12+	0.1256	0.0298	1.3988	0.1217	0.0184	1.4222
	MSE =	0.5498966		MSE =	0.5432884	
Followup						
<12	0.2101 **	0.3504 **	1.5278	0.1857 **	0.3466 **	1.5446
12+	0.3294 **	0.3168 **	1.4356	0.3266 **	0.3230 **	1.4412
	MSE =	1.044864		MSE =	1.037735	
Riboflavin (mg)						
Initial						
<12	0.0057	0.0070	2.0073	0.0282	0.0392	1.9849
12+	0.1206	-0.1757	1.9747	0.1395	-0.1400	1.9611
	MSE =	1.335948		MSE =	1.324149	
Followup						
<12	0.2661 **	0.5274 **	2.0150	0.2658 **	0.5603 **	2.0303
12+	0.2532 *	0.0917	2.1180	0.2759 *	0.1213	2.0797
	MSE =	2.040187		MSE =	2.02214	
Niacin (mg)						
Initial						
<12	-0.7472 *	0.2579	19.6496	-0.9620 *	-0.0571	19.8196
12+	0.4228	-0.0341	19.3504	0.1779	-0.2359	19.5759
	MSE =	98.17874		MSE =	97.44517	
Followup						
<12	1.7593 **	3.5978 *	19.5925	1.5461 **	3.5688 *	19.8072
12+	2.5540 *	2.2883	19.7461	2.6627 *	2.4445	19.6112
	MSE =	183.8639		MSE =	183.1363	
Vitamin B6 (mg)						
Initial						
<12	-0.0668	0.1012	1.6437	-0.0817 *	0.0716	1.6463
12+	0.0151	-0.0894	1.6135	-0.0045	-0.1143	1.6426
	MSE =	0.8753009		MSE =	0.8672021	

(continued)

Table V-B-11 (continued)

Maternal education (yrs)	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
<12	0.1389 **	0.2541	1.7132	0.1397 **	0.2460	1.7211
12+	0.3178 **	0.1078	1.6303	0.3397 **	0.1105	1.6039
	MSE =	1.66436		MSE =	1.65149	
Vitamin B12 (mcg)						
Initial						
<12	0.0459	-0.9765	5.2782	0.0669	-1.0889	5.3067
12+	-0.5333	-2.1953	6.1507	-0.4303	-2.1016	6.0242
	MSE =	105.8548		MSE =	106.2487	
Followup						
<12	1.0325 *	2.9638	5.3017	0.9342 *	2.8956	5.7836
12+	0.7174	-0.1771	6.1268	0.8334	-0.3574	5.5905
	MSE =	145.7725		MSE =	145.2	
Vitamin C (mg)						
Initial						
<12	4.0647	4.1788	122.1828	0.7467	-1.8017	127.1192
12+	8.1857	17.3300	117.2532	9.6205	15.6150	114.1711
	MSE =	12787.49		MSE =	12374.25	
Followup						
<12	24.2134 **	32.2847 *	117.4869	23.0835 **	31.0444 *	121.1875
12+	29.7362 **	9.8097	115.5157	31.1933 **	5.2553	111.5216
	MSE =	15604.07		MSE =	15394.34	
<u>Intake from Potential</u>						
<u>WIC Foods</u>						
Calories (kcal)						
Initial						
<12	36.4979 **	9.2538	403.1322	40.1176 **	13.7915	391.2410
12+	39.0420	-76.1826 *	374.2840	52.9357	-63.2932	372.9957
	MSE =	121036.6		MSE =	116596.8	
Followup						
<12	128.0825 **	209.0648 **	343.1016	140.5612 **	209.6113 **	332.1025
12+	106.4671 **	69.4943	379.5691	122.7340 **	73.3981 *	367.7430
	MSE =	113181.2		MSE =	109444.9	
Protein (g)						
Initial						
<12	1.5352 *	-0.0390	21.7718	1.7870 *	0.4437	21.1105
12+	1.9538	-5.3881 **	20.2414	2.6888	-4.6352 *	20.1326
	MSE =	351.2696		MSE =	337.3562	
Followup						
<12	5.5728 **	9.1487 **	18.2992	6.3725 **	9.1906 **	17.5672
12+	4.1109 **	2.2495	20.6594	4.9651 **	2.4684	20.0769
	MSE =	305.1744		MSE =	294.413	

(continued)

Table V-B-11 (continued)

Maternal education (yrs)	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Fat (g)						
Initial						
<12	0.9725	-0.4678	20.8598	1.4301 *	-0.0223	20.0974
12+	1.4771	-4.5206 *	19.1722	2.2377	-3.6821	18.9642
	MSE =	358.4458		MSE =	349.3679	
Followup						
<12	4.4460 **	7.8525 **	17.4100	5.1161 **	7.8634 **	16.8163
12+	3.2390 *	2.2564	19.2542	3.9096 *	2.4786	18.7796
	MSE =	301.6591		MSE =	294.6929	
Carbohydrate (g)						
Initial						
<12	5.6769 **	3.6374	32.8534	5.3205 **	3.3310	32.2378
12+	4.7741	-3.3419	30.8921	5.8631	-2.6595	31.0959
	MSE =	1385.063		MSE =	1331.857	
Followup						
<12	17.2672 **	26.4588 **	29.0624	18.1346 **	26.6337 **	28.2742
12+	16.0901 **	9.8500 *	31.4295	17.9336 **	10.2810 *	30.0708
	MSE =	1704.198		MSE =	1654.615	
Calcium (mg)						
Initial						
<12	20.5753	-24.7154	566.3515	40.6547	0.1040	547.7900
12+	41.8726	-168.3012 **	554.7095	74.6705	-131.4552 *	528.7850
	MSE =	309422.4		MSE =	298356.9	
Followup						
<12	132.2293 **	232.9840 **	487.7913	154.8172 **	241.9511 **	472.3366
12+	107.0085 *	4.6416	553.8637	130.2126 **	20.1958	531.3230
	MSE =	259018.9		MSE =	251687.3	
Iron (mg)						
Initial						
<12	0.7385 **	0.7357	2.2260	0.6025 *	0.5902	2.1781
12+	0.9368	-0.6511	1.8846	0.7528	-0.8938	2.2282
	MSE =	40.6266		MSE =	39.97123	
Followup						
<12	3.3237 **	6.0316 **	1.9448	3.3525 **	6.0643 **	1.9057
12+	4.1322 **	3.0759 *	2.2054	4.3954 **	3.3389 **	2.0079
	MSE =	127.3705		MSE =	126.5324	
Magnesium (mg)						
Initial						
<12	9.3009 **	4.9966	79.9004	9.9562 **	6.7105	76.8760
12+	12.0005	-13.4680	70.9933	15.1289 *	-9.9583	71.1792
	MSE =	6412.456		MSE =	6125.229	

(continued)

Table V-B-11 (continued)

Maternal education (yrs)	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
<12	27.5479 **	43.4490 **	70.4675	30.1437 **	43.9808 **	67.5735
12+	22.7507 **	10.9713	76.2314	26.2755 **	11.5850	74.3288
	MSE =	6158.741		MSE =	5955.19	
Phosphorus (mg)						
Initial						
<12	30.5372	-8.3951	547.1342	40.3541 *	8.0685	530.8600
12+	43.6277	-149.1395 **	520.1771	66.3678	-123.4296 *	509.9496
	MSE =	242208.2		MSE =	233973.6	
Followup						
<12	140.5272 **	235.7790 **	461.1714	160.2462 **	240.8326 **	443.7856
12+	105.6021 **	38.8267	523.6186	126.0631 **	47.6323	508.5580
	MSE =	205662.1		MSE =	199445.9	
Vitamin A (IU)						
Initial						
<12	225.7741 **	208.4672	1004.8631	226.8144 **	207.8479	987.3953
12+	200.0886	-290.3126	1053.9277	210.4318	-289.3978	1065.5216
	MSE =	3000047		MSE =	2975363	
Followup						
<12	910.1910 **	1671.4769 **	926.8024	934.1603 **	1691.4370 **	922.8799
12+	1127.7778 **	840.1305 *	1087.4138	1218.2630 **	927.6961 **	995.2631
	MSE =	9373521		MSE =	9296906	
Thiamin (mg)						
Initial						
<12	0.0745 **	0.0839	0.2853	0.0697 **	0.0768	0.2790
12+	0.0763	-0.0561	0.2774	0.0770	-0.0605	0.2894
	MSE =	0.2877428		MSE =	0.2840334	
Followup						
<12	0.3012 **	0.5417 **	0.2655	0.3052 **	0.5456 **	0.2639
12+	0.3621 **	0.2641 *	0.2967	0.3902 **	0.2870 **	0.2721
	MSE =	0.8817338		MSE =	0.8748051	
Riboflavin (mg)						
Initial						
<12	0.0773 *	0.0459	0.7794	0.0957 **	0.0695	0.7513
12+	0.1197	-0.2116 *	0.7456	0.1477	-0.1813	0.7364
	MSE =	0.8006207		MSE =	0.7807959	
Followup						
<12	0.3903 **	0.7214 **	0.6941	0.4155 **	0.7381 **	0.6770
12+	0.4328 **	0.2685 *	0.7878	0.4789 **	0.3105 *	0.7455
	MSE =	1.529989		MSE =	1.503272	

(continued)

Table V-B-11 (continued)

Maternal education (yrs)	Unadjusted ^b			Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Niacin (mg)						
Initial						
<12	0.7706 **	0.9070	1.2863	0.7622 **	0.8717	1.2169
12+	0.9653	-0.3248	1.2025	0.8957	-0.4018	1.3501
	MSE =	38.45524		MSE =	38.25377	
Followup						
<12	3.0159 **	5.9148 **	1.4532	3.0136 **	5.9923 **	1.4881
12+	4.2405 **	3.1618 *	1.5638	4.4943 **	3.4973 **	1.3134
	MSE =	140.9689		MSE =	140.3761	
Vitamin B6 (mg)						
Initial						
<12	0.0817 **	0.0941	0.3012	0.0767 **	0.0893	0.2877
12+	0.0877	-0.0906	0.2748	0.0820	-0.1016	0.3002
	MSE =	0.4495699		MSE =	0.4433555	
Followup						
<12	0.3518 **	0.6329 **	0.2793	0.3541 **	0.6396 **	0.2724
12+	0.4366 **	0.3101 *	0.3061	0.4650 **	0.3409 *	0.2885
	MSE =	1.492763		MSE =	1.481578	
Vitamin B12 (mcg)						
Initial						
<12	0.2218 *	0.1805	1.9443	0.2523 **	0.2200	1.8782
12+	0.3294	-0.5122	1.8482	0.3735	-0.4752	1.8574
	MSE =	6.235442		MSE =	6.114816	
Followup						
<12	1.1821 **	2.1958 **	1.7231	1.2374 **	2.2330 **	1.6891
12+	1.3678 **	0.9403 *	1.9696	1.4966 **	1.0654 *	1.8504
	MSE =	15.51472		MSE =	15.31274	
Vitamin C (mg)						
Initial						
<12	15.2155 **	15.5175	34.9361	13.3309 **	12.2301	36.2392
12+	4.4520	9.9905	41.2673	6.1427	9.7764	40.5266
	MSE =	7804.819		MSE =	7636.054	
Followup						
<12	34.3188 **	50.6627 **	34.0664	34.3534 **	49.2491 **	35.2041
12+	34.4903 **	31.7999 **	36.4733	37.7418 **	31.3599 **	32.7787
	MSE =	11050.08		MSE =	10898.34	

(continued)

Table V-B-11 (continued)

Maternal education (yrs)	WIC	WIC/control	Control	Total
<12	1,519	114	212	1,845
≥12	<u>1,243</u>	<u>67</u>	<u>318</u>	<u>1,628</u>
Total	2,762	181	530	3,473

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/Control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for control group and differences from control group means for WIC and WIC/Control groups.

^bInitial interviews controlled for duration of gestation at registration. Follow-up interviews controlled for initial nutrient intake and duration of gestation at both interviews.

^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews adjusted for initial nutrient intake, duration of gestation at both interviews and maternal characteristics at registration into study. See Appendix V-A-3 for full covariate list.

Table V-B-12

Mean Daily Dietary Intake at Initial and Followup Interviews by WIC status^a and Family Income

Family Income (Annual)	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Total Intake per Day						
Calories (KCAL)						
Initial						
<3,000	-210.8223	-67.7719	2154.5345	-190.6497	-44.2052	2080.0023
3,000-6,999	-113.3412	-6.1733	2083.5880	-135.1886	-29.7182	2087.7523
7,000-12,999	49.5406	76.1021	1938.8219	56.4644	85.8286	1970.6928
>13,000	63.3199	213.7617	2003.2997	51.8012	235.7490	2063.7020
Missing	8.3093	-90.0997	1996.0784	40.9888	-73.2520	1950.1358
	MSE =	835645.9		MSE =	813380.9	
Followup						
<3,000	-71.5854	37.6073	2075.9141	-51.4620	-16.8178	2060.1135
3,000-6,999	92.7095	250.1081	1868.1477	90.9662	228.0604	1873.2134
7,000-12,999	60.3525	128.4710	1964.4107	114.1416	143.7293	1925.6292
>13,000	216.3066*	-50.7090	1860.3254	212.4646*	-44.0349	1862.5999
Missing	165.8384	198.4827	1885.5399	181.0351	207.2914	1866.9980
	MSE =	677388.1		MSE =	658973.1	
Protein (g)						
Initial						
<3,000	-9.0601	-9.0059	87.7053	-8.4547	-9.2562	84.9963
3,000-6,999	-5.4080	-5.2837	84.4042	-6.6619	-5.5078	84.6742
7,000-12,999	0.2220	1.5367	79.0731	-0.0789	1.5583	80.6445
>13,000	7.2508	10.8947	75.3776	6.8881	12.0701	77.7963
Missing	1.5856	-10.5746	79.4996	2.1369	-9.8631	78.7569
	MSE =	1698.757		MSE =	1658.129	
Followup						
<3,000	-3.9026	1.2856	83.2966	-2.5751	-1.2270	81.9221
3,000-6,999	7.3717	14.1474*	72.1539	7.6912*	14.3259*	71.7999
7,000-12,999	0.3946	-0.4195	79.4708	3.6533	0.8478	76.9065
>13,000	6.3505	-5.8534	76.4971	6.5253	-4.6633	76.3859
Missing	9.3436	16.4993	73.5028	10.1042 *	17.1233	73.4761
	MSE =	1607.019		MSE =	1553.641	
Fat (g)						
Initial						
<3,000	-18.4128*	-13.0279	99.0410	-17.0295*	-12.0441	94.3561
3,000-6,999	-5.5880	-6.6379	89.3711	-6.5746	-6.7794	88.9574
7,000-12,999	2.2873	-0.6278	82.1138	2.8433	0.8504	83.8061
>13,000	3.8795	6.5931	84.6778	2.9453	8.5357	87.4760
Missing	0.9813	-4.0975	84.9831	3.5072	-2.2035	83.1920
	MSE =	2386.184		MSE =	2317.625	
Followup						
<3,000	-6.0206	-0.4166	88.9484	-5.1787	-2.2130	87.4428
3,000-6,999	4.0025	11.2402	76.2305	3.7191	10.4757	76.1515
7,000-12,999	2.2176	2.2234	81.3202	4.8770	4.8169	79.8220
>13,000	11.7467*	-7.7318	77.1971	11.2084	-6.1969	77.2566
Missing	5.8438	4.2974	77.7674	8.3244	6.1994	76.3308
	MSE =	1958.86		MSE =	1912.323	
Carbohydrate (g)						
Initial						
<3,000	-3.2772	21.2712	232.9597	-1.1424	26.2776	226.8137
3,000-6,999	-9.9671	19.8149	239.4585	-11.8966	14.4761	241.2005
7,000-12,999	6.8608	18.2261	225.6942	8.0413	17.6470	228.0340
>13,000	1.2864	21.5399	238.6203	1.2016	21.5105	244.4950
Missing	-0.5919	0.2241	231.1033	1.5805	-0.6812	224.1160
	MSE =	13068.61		MSE =	12844.85	

(continued)

Table V-B-12 (continued)

Family Income (Annual)	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
<3,000	-3.6692	5.3579	243.0709	-1.7326	-1.5715	243.3856
3,000-6,999	6.4157	23.2536	227.7385	6.0248	19.1829	229.6723
7,000-12,999	11.2196	28.1095	232.5260	15.8820	25.4550	228.5359
>13,000	23.7152	14.4795	218.1564	23.7765	12.3547	218.7539
Missing	18.8341	16.8520	227.6334	16.7987	14.2296	226.0942
	MSE =	11074.36		MSE =	10828.36	
Calcium (mg)						
Initial						
<3,000	-101.3561	-287.8740	987.7634	-50.6719	-162.9628	935.6307
3,000-6,999	-111.7045	-85.3345	1065.0682	-107.8439	-78.7817	1059.6876
7,000-12,999	27.7091	-15.7445	946.2829	61.7287	37.1082	915.9535
>13,000	161.8398	107.6910	831.0761*	177.8291*	135.8778	802.6453**
Missing	119.0104	-1.6325	861.3729*	177.0895*	14.3769	835.4450**
	MSE =	433641.6		MSE =	417240.1	
Followup						
<3,000	75.4415	82.8898	957.3512	104.3913	120.5412	941.9035
3,000-6,999	106.6766	222.5738*	842.5549	110.3692	218.6558*	848.9432
7,000-12,999	57.9551	119.2537	946.1857	110.4954*	164.3556	888.7561
>13,000	168.5444*	30.9162	893.1814	194.1009*	60.1225	842.6557
Missing	165.8866*	229.3246	843.0012	194.3543**	224.2170	841.6261
	MSE =	344298.7		MSE =	334156.1	
Iron (mg)						
Initial						
<3,000	-0.8381	-2.0897	15.1240	-0.6762	-2.5468	14.6265
3,000-6,999	-0.7073	1.2738	15.1025	-0.9545	1.0519	15.1847
7,000-12,999	0.5653	-0.3758	14.0850	0.3789	-0.6589	14.4618
>13,000	-0.3070	1.7770	14.4625	-0.3786	1.8708	15.1311
Missing	0.7551	-1.5094	13.7270	0.6525	-1.6747	13.6299
	MSE =	92.22476		MSE =	91.53278	
Followup						
<3,000	2.8981	3.8975	14.0042	2.9138	3.8943	13.8496
3,000-6,999	2.6654*	4.7545*	14.3368	2.4668	4.4425*	14.6902
7,000-12,999	2.5894*	3.8389	14.5931	3.3218**	4.0937*	13.9605
>13,000	4.0410*	2.8348	13.1986	4.0750*	2.9928	13.3227
Missing	3.7284*	6.3949*	14.1260	3.2666*	6.2562*	14.3433
	MSE =	178.4111		MSE =	175.5606	
Magnesium (mg)						
Initial						
<3,000	-12.5177	-15.4979	262.6503	-3.8952	-2.0345	252.1517
3,000-6,999	-15.5133	4.1973	272.7538	-15.7662	4.9850	272.1945
7,000-12,999	3.7495	-5.0030	259.0342	7.3817	-1.7533	257.3397
>13,000	17.7286	24.7895	258.9608	22.0406	25.4905	255.8717
Missing	24.0332	-7.7456	236.7313	30.4678	-6.4730	233.1494
	MSE =	20641.28		MSE =	20182.92	
Followup						
<3,000	-6.9096	-12.2147	274.1158	-2.6415	-16.3005	274.3646
3,000-6,999	21.4177	31.3524	240.2126	21.4629	30.2366	241.8047
7,000-12,999	13.2644	22.9624	258.6768	24.5935*	29.4576	246.9406
>13,000	32.4034	-5.8710	242.0344	36.4684*	-3.4455	233.6168
Missing	43.7056**	30.0488	227.8952	46.1943**	29.3073	228.3907
	MSE =	16898.39		MSE =	16351.3	

(continued)

Table V-B-12 (continued)

Family Income (Annual)	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Phosphorus (mg)						
Initial						
<3,000	-167.4494	-248.5924	1462.9085	-124.7406	-154.3420	1402.3919
3,000-6,999	-122.5595	-116.4216	1455.6021	-128.4893	-120.8038	1453.2257
7,000-12,999	14.2026	-7.3062	1342.2198	33.4057	21.6572	1334.9764
>13,000	103.0876	170.3942	1292.6777	114.1794	193.0389	1297.0638
Missing	69.0653	-74.8678	1281.1219	109.0417	-58.0835	1257.5024
	MSE =	509868.3		MSE =	496007.7	
Followup						
<3,000	52.4893	84.1306	1341.6659	77.0069	86.4235	1330.2095
3,000-6,999	153.8372*	276.7488**	1188.0692	158.9108*	271.2607**	1190.0299
7,000-12,999	27.1348	116.2369	1346.5821*	82.5018	142.2884	1293.0280
>13,000	190.7773*	-1.0026	1236.9738	206.1113*	13.7575	1209.6012
Missing	188.2161*	231.9036	1215.7722	206.5084**	232.1715	1211.2292
	MSE =	412389.8		MSE =	398291.4	
Vitamin A (iu)						
Initial						
<3,000	777.6411	-2206.3137	5664.2597	1032.0699	-2500.5016	5178.7787
3,000-6,999	-26.0614	1050.3811	5931.4127	-68.5547	1182.5929	5912.9706
7,000-12,999	590.4327	-13.3475	5422.6250	616.6005	-284.3924	5513.3569
>13,000	-387.3218	-386.0830	6681.5605	-346.4948	-454.5716	6927.7856
Missing	907.3872	-1457.1791	5675.8396	725.8328	-1405.8854	5821.6948
	MSE =	85310641		MSE =	84515366	
Followup						
<3,000	313.0496	144.2531	6378.8131	464.6579	-227.4213	6141.4665
3,000-6,999	954.5059	1246.4259	5784.8393	982.7785	1252.2149	5747.8402
7,000-12,999	-298.2682	-961.1642	7200.4647	-3.4645	-1086.2169	6972.3963
>13,000	2057.1091	1366.4692	5416.6384	2255.5162	1281.4730	5175.2043
Missing	1626.7912	5776.0656**	5148.2924	1417.8103	5861.2232**	5540.2474
	MSE =	83812562		MSE =	82563918	
Thiamin (mg)						
Initial						
<3,000	-0.1219	-0.3045	1.6531	-0.0901	-0.3118	1.5849
3,000-6,999	-0.0130	0.1854	1.5067	-0.0301	0.1670	1.5174
7,000-12,999	0.1124	0.0682	1.4068	0.1067	0.0429	1.4387
>13,000	0.0110	0.3582	1.4726	0.0080	0.3721	1.5393
Missing	0.1272	-0.0127	1.3986	0.1186	-0.0373	1.3646
	MSE =	0.9953809		MSE =	0.9807884	
Followup						
<3,000	0.3151	0.5222	1.4001	0.2880	0.4973	1.4094
3,000-6,999	0.3173**	0.4479*	1.4187	0.2805*	0.3896*	1.4658
7,000-12,999	0.3082**	0.5175**	1.4496	0.3745**	0.5447**	1.3897
>13,000	0.4291**	0.2555	1.3119	0.4228**	0.2859	1.3465
Missing	0.3513*	0.5215	1.4867	0.3023*	0.5054	1.5123
	MSE =	1.472785		MSE =	1.445227	
Riboflavin (mg)						
Initial						
<3,000	-0.0147	-0.4937	2.0539	0.0592	-0.3746	1.9467
3,000-6,999	-0.1362	0.0721	2.1407	-0.1434	0.0755	2.1322
7,000-12,999	0.0852	-0.0793	1.9827	0.1215	-0.0143	1.9655
>13,000	0.1292	0.4628	1.9486	0.1421	0.5334	1.9659
Missing	0.1810	-0.1346	1.8767	0.2493	-0.1237	1.8430
	MSE =	2.155723		MSE =	2.12974	

(continued)

Table V-B-12 (continued)

Family Income (Annual)	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
<3,000	0.3043	0.5563	1.9845	0.3358	0.6355	1.9409
3,000-6,999	0.1743	0.4450	2.0853	0.1605	0.4276	2.1107
7,000-12,999	0.2831*	0.4049	2.0603	0.3894**	0.4595	1.9650
>13,000	0.6348**	0.1496	1.7961	0.6613**	0.1923	1.7566
Missing	0.4672*	1.0330**	1.9539	0.4548*	1.0417**	1.9874
	MSE =	2.854838		MSE =	2.799895	
Niacin (mg)						
Initial						
<3,000	-1.6594	1.4567	20.8521	-1.3018	0.7765	19.8150
3,000-6,999	-0.5655	1.2451	19.7694	-0.8508	1.0137	19.7982
7,000-12,999	-0.6496	-0.2820	19.5361	-0.8054	-0.3855	20.1021
>13,000	1.1686	4.5121	19.1170	0.9799	4.9967	20.0689
Missing	-0.0383	-3.2652	19.2399	0.0316	-3.1719	18.9792
	MSE =	168.4296		MSE =	165.8225	
Followup						
<3,000	1.3640	3.4997	19.5064	1.4137	3.2343	19.1743
3,000-6,999	3.2703*	6.6734*	18.5785	3.1882*	6.4034*	18.8114
7,000-12,999	2.6876*	3.4868	18.8880	3.6143**	3.8511	18.2073
>13,000	4.0611	-1.4607	18.5317	4.0711	-1.2056	18.7184
Missing	3.3633	7.8365*	19.6084	2.8813	7.6718*	19.8219
	MSE =	258.7668		MSE =	254.5878	
Vitamin B6 (mg)						
Initial						
<3,000	-0.0591	-0.0793	1.6549	-0.0305	-0.1258	1.5815
3,000-6,999	-0.0808	0.2581	1.6655	-0.1081	0.2404	1.6761
7,000-12,999	-0.0526	-0.0721	1.6507	-0.0638	-0.1078	1.6906
>13,000	-0.0269	0.4764	1.6307	-0.0322	0.4920	1.7137
Missing	0.0357	-0.2443	1.5621	0.0184	-0.2752	1.5458
	MSE =	1.391813		MSE =	1.376676	
Followup						
<3,000	0.2136	0.1133	1.6366	0.2384	0.1083	1.5935
3,000-6,999	0.2760	0.4942*	1.5741	0.2772	0.4614	1.5943
7,000-12,999	0.3175**	0.4012	1.6018	0.4159**	0.4121	1.5160
>13,000	0.3692	-0.2994	1.5581	0.3796	-0.2945	1.5726
Missing	0.3813*	0.6179	1.6422	0.3262	0.5804	1.6794
	MSE =	2.212711		MSE =	2.170787	
Vitamin B12 (mcg)						
Initial						
<3,000	0.5926	-1.4276	4.8365	0.9322	-1.4666	4.2533
3,000-6,999	-1.6241	-1.8518	6.8479	-1.5298	-1.7847	6.6404
7,000-12,999	0.2641	-1.1997	5.3929	0.4256	-0.9630	5.3957
>13,000	-1.5239	-2.5345	6.8991	-1.4810	-2.3530	7.0376
MISSING	0.2787	-1.3477	5.2630	0.6053	-1.2546	5.1587
	MSE =	111.7191		MSE =	111.6876	
Followup						
<3,000	1.7433	3.8890	4.6483	2.1016	4.2071	4.1358
3,000-6,999	1.3560	1.7059	5.0221	1.4856	1.8868	4.8571
7,000-12,999	0.2910	-1.0255	6.6495	0.5179	-1.2260	6.5334
>13,000	1.8349	3.8441	5.2559	2.0500	3.7000	5.0223
Missing	2.0530	7.9209**	4.2732	1.9344	8.1321**	4.5984
	MSE =	154.7762		MSE =	153.9544	

(continued)

Table V-B-12 (continued)

Family Income (Annual)	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Vitamin C (mg)						
Initial						
<3,000	16.3857	3.1632	106.6872	17.2014	-5.2843	103.8361
3,000-6,999	-11.9735	25.1311	132.5563	-13.9509	23.9244	135.2498
7,000-12,999	0.8487	-3.5822	123.7547	1.3313	-9.1096	125.4115
>13,000	21.9285	3.9589	111.2386	22.6162	3.4454	117.7609
Missing	25.8675	27.0163	108.6981	20.7828	22.1723	105.9049
	MSE =	15030.07		MSE =	14540.8	
Followup						
<3,000	46.6881*	27.1107	95.0287	46.7135*	14.3466	95.3384
3,000-6,999	22.1976	32.0814	114.6485	20.7404	31.9342	116.8039
7,000-12,999	36.0791**	43.3724*	113.0739	41.0247**	39.9502*	108.6580
>13,000	18.1936	0.3628	120.6956	19.6863	0.1797	121.2426
Missing	38.1167*	39.8424	115.0365	32.2078*	37.1858	118.9643
	MSE =	17482.91		MSE =	17228.21	
Protein (g)						
Initial						
<3,000	-1.0295	-6.4243	81.5610	-1.2051	-7.5752	81.6968
3,000-6,999	-1.0906	-5.0485	80.9624	-1.5212	-4.3777	81.0801
7,000-12,999	-1.6651	-1.3622	81.1457	-2.2260	-1.7054	81.5016
>13,000	4.8388	2.7521	74.9941	4.9184	3.1056	75.1166
Missing	1.2691	-7.1425	79.3912	0.5783	-7.0777	80.3957
	MSE =	486.3839		MSE =	482.1408	
Followup						
<3,000	-0.6285	-1.2397	80.1838	-0.2151	-1.8937	79.7089
3,000-6,999	3.8522	3.3179	77.3403	4.2446	4.6521	76.7625
7,000-12,999	-2.4600	-5.9862	81.3394	-1.3974	-5.3585	80.2363
>13,000	-1.4360	-3.9813	81.0786	-1.0135	-3.0613	80.6966
Missing	3.0241	7.5617	77.9671	3.0094	7.8943	78.9609
	MSE =	525.3476		MSE =	518.7909	
Fat (g)						
Initial						
<3,000	-8.3089**	-9.7798	91.3105	-7.9184*	-9.9315	90.2094
3,000-6,999	-0.1560	-6.3420	85.0408	-0.1140	-5.3591	84.4404
7,000-12,999	-0.0870	-4.2751	84.7216	0.1448	-3.2513	84.8833
>13,000	0.8449	-3.6517	84.1954	0.4697	-2.7307	84.1084
Missing	0.5830	0.2206	84.8468	1.5483	1.2972	85.2516
	MSE =	466.909		MSE =	460.1057	
Followup						
<3,000	-3.5468	-3.7869	86.1985	-3.6146	-3.1136	85.4481
3,000-6,999	0.0245	-1.6090	82.2275	-0.1030	-1.1073	81.7985
7,000-12,999	-0.7878	-4.8382	83.2541	-0.6524	-2.8212	83.5150
>13,000	1.5915	-6.7611	83.6742	1.1688	-5.4308	83.4291
Missing	-1.8197	-4.6275	83.2105	-0.0134	-3.0399	82.8947
	MSE =	439.4588		MSE =	423.8574	
Carbohydrate (g)						
Initial						
<3,000	19.2105*	28.5002	215.7543	19.2677*	31.0100*	217.5247
3,000-6,999	2.1226	20.4734*	229.8207	2.5761	17.6576	231.0818
7,000-12,999	1.5764	10.1086	231.4981	1.9965	8.4586	230.4471
>13,000	-5.4678	-1.2614	237.5466	-4.3440	-3.7277	236.9509
Missing	-1.4782	9.8347	230.7999	-2.8076	7.1608	228.7299
	MSE =	3561.861		MSE =	3523.803	

(continued)

Table V-B-12 (continued)

Family Income (Annual)	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
<3,000	8.9609	7.6614	230.8247	8.6607	6.7626	233.5929
3,000-6,999	-2.2201	1.3776	240.5434	-2.2030	-0.9241	242.1808
7,000-12,999	5.0276	16.3936	236.3423	4.0285	11.6610	236.0914
>13,000	-0.3191	18.2796	233.7684	0.4043	14.8382	233.6878
Missing	1.1914	-1.3258	239.2777	-2.9379	-5.6036	239.5434
	MSE =	3610.808		MSE =	3536.894	
Calcium (mg)						
Initial						
<3,000	-3.1108	-256.2916*	912.5956	38.3195	-142.3288	895.1290
3,000-6,999	-58.8864	-82.4577	1022.9622	-44.7407	-64.9099	1015.5683
7,000-12,999	4.6226	-51.2089	971.6394	35.3723	-2.9549	926.4751
>13,000	132.3321*	8.0759	826.3853**	153.6494*	25.8350	769.7522**
Missing	115.1382	40.3549	860.0473*	157.9568**	48.5694	855.5623**
	MSE =	252241.2		MSE =	240088.3	
Followup						
<3,000	116.2802	40.5975	912.8331	140.4227*	112.7561	905.9479
3,000-6,999	67.6707	109.4916	900.8844	74.6437	117.9168	904.3414
7,000-12,999	31.1500	55.9984	966.2654	64.4612	99.8768	918.0887
>13,000	91.3607	40.5364	935.8569	121.7835*	68.5021	874.4461
Missing	110.5193	157.0228	879.8173	136.0043*	147.9983	887.9730
	MSE =	224392.2		MSE =	217428.5	
Iron (mg)						
Initial						
<3,000	0.5692	-1.6373	14.0472	0.6094	-2.2487	14.0414
3,000-6,999	0.0493	1.3150	14.4993	-0.0429	1.2523	14.5473
7,000-12,999	0.2346	-0.8838	14.4482	-0.0018	-1.2377	14.6138
>13,000	-0.7297	0.3501	14.3953	-0.7279	0.2811	14.6560
Missing	0.6996	-0.9079	13.7080	0.3761	-1.1807	13.9205
	MSE =	55.00367		MSE =	54.56504	
Followup						
<3,000	3.8061*	3.4522	13.1532	3.6299*	3.7834	13.2259
3,000-6,999	2.0675	2.9323	15.2995	1.9015	2.8282	15.6048
7,000-12,999	2.0804*	2.5977	14.9505	2.3548**	2.6938	14.6016
>13,000	2.1353	3.0220	14.3044	2.2354	3.0901	14.3611
Missing	2.4866	4.7933	14.9481	1.8335	4.5559	15.3897
	MSE =	132.8829		MSE =	132.2163	
Magnesium (mg)						
Initial						
<3,000	13.2548	-7.2130	242.9317	19.5370	3.3986	241.4873
3,000-6,999	-1.6577	4.9519	261.7082	0.8495	8.6376	260.5775
7,000-12,999	-2.3067	-14.3063	265.6859	0.4419	-12.3022	260.1101
>13,000	9.9879	-1.3424	257.7302	15.6739	-3.4847	247.2107
Missing	23.0174*	3.2688	236.3836	25.4300*	2.5302	238.4465
	MSE =	8155.367		MSE =	7898.171	
Followup						
<3,000	6.1982	-17.3652	260.5141	8.7795	-13.4588	263.3284
3,000-6,999	11.2999	2.2412	255.4272	12.1973	4.7133	256.1620
7,000-12,999	5.2310	4.3773	264.5148	10.5581	9.3825	256.1065
>13,000	7.6412	-2.5725	258.2748	13.2350	-1.4438	247.1997
Missing	27.7456**	7.9131	237.6965	28.4486**	5.8845	241.2620
	MSE =	6974.567		MSE =	6755.264	

(continued)

Table V-B-12 (continued)

Family Income (Annual)	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Phosphorus (mg)						
Initial						
<3,000	-29.6492	-204.2945*	1357.4771	0.1436	-125.3856	1345.5546
3,000-6,999	-48.4761	-112.3866	1396.5437	-39.9346	-101.3370	1391.3118
7,000-12,999	-18.1788	-57.0490	1377.7852	-3.5811	-34.5644	1349.7418
>13,000	61.6997	30.6727	1286.0983	80.2472	38.6127	1250.9040*
Missing	63.6341	-15.9758	1279.2625*	82.1921	-10.1002	1285.7335
	MSE =	152895.4		MSE =	147041.9	
Followup						
<3,000	100.5721	22.0422	1290.1927	116.9143*	73.2170	1289.8122
3,000-6,999	89.8052*	95.3778	1279.4230	98.3559**	107.6760	1276.9491
7,000-12,999	-16.4047	20.3128	1378.2958*	8.0305	41.3307	1342.1007
>13,000	63.1948	28.1631	1314.3258	85.0100	39.7881	1276.4830
Missing	95.2137*	106.2439	1276.3132	106.4828*	102.2111	1286.4131
	MSE =	134416.9		MSE =	129765	
Vitamin A (iu)						
Initial						
<3,000	1324.7046	-2030.4520	5245.6996	1528.0424	-2385.5025	4953.0516
3,000-6,999	268.0480	1066.4002	5696.9521	283.1366	1259.9043	5667.0821
7,000-12,999	461.8795	-210.8251	5563.8186	469.7093	-507.6743	5571.9968
>13,000	-551.6308	-940.7741	6655.4405	-481.2549	-1067.8690	6744.4636
Missing	885.8254	-1223.3790	5668.4580	619.2009	-1215.3214	5933.8135
	MSE =	79706854		MSE =	79033709	
Followup						
<3,000	717.3782	20.4861	6013.7503	795.6308	-210.4933	5871.9658
3,000-6,999	765.3923	528.0265	6108.1891	816.9220	628.8582	6048.8909
7,000-12,999	-500.5897	-1407.5765	7333.5528	-371.7051	-1589.5614	7200.0235
>13,000	1348.1281	1335.2468	5846.4190	1574.7398	1213.8541	5554.2482
Missing	1148.9700	5211.5748**	5481.1609	866.7552	5261.4615**	5965.9112
	MSE =	77267209		MSE =	76313305	
Thiamin (mg)						
Initial						
<3,000	0.0320	-0.2551	1.5353	0.0497	-0.2794	1.5213
3,000-6,999	0.0698	0.1899	1.4407	0.0690	0.1887	1.4482
7,000-12,999	0.0763	0.0127	1.4466	0.0653	-0.0200	1.4553
>13,000	-0.0353	0.2022	1.4653	-0.0300	0.1993	1.4876
Missing	0.1211	0.0530	1.3965	0.0885	0.0164	1.3962
	MSE =	0.5502273		MSE =	0.5438961	
Followup						
<3,000	0.3978**	0.4659	1.3285	0.3544*	0.4789	1.3567
3,000-6,999	0.2669**	0.2800	1.5034	0.2339*	0.2420	1.5465
7,000-12,999	0.2662**	0.4112**	1.4760	0.2891**	0.4225**	1.4435
>13,000	0.2493	0.2995	1.4148	0.2498	0.3206	1.4432
Missing	0.2378	0.3841	1.5613	0.1701	0.3561	1.6057
	MSE =	1.046296		MSE =	1.039132	
Riboflavin (mg)						
Initial						
<3,000	0.1940	-0.4266	1.8942	0.2489	-0.3306	1.8603
3,000-6,999	-0.0240	0.0782	2.0512	-0.0089	0.1051	2.0382
7,000-12,999	0.0361	-0.1547	2.0365	0.0653	-0.0997	1.9880
>13,000	0.0666	0.2513	1.9386	0.0906	0.2988	1.8957
Missing	0.1728	-0.0454	1.8739	0.2085	-0.0508	1.8859
	MSE =	1.337421		MSE =	1.3247	

(continued)

Table V-B-12 (continued)

Family Income (Annual)	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
<3,000	0.4390*	0.4738	1.8608	0.4505*	0.6206	1.8436
3,000-6,999	0.0904	0.1873	2.2151	0.0845	0.2024	2.2318
7,000-12,999	0.2155	0.2361	2.1080	0.2672*	0.2814	2.0428
>13,000	0.4016*	0.1993	1.9328	0.4384*	0.2363	1.8756
Missing	0.3099	0.8297*	2.0573	0.2810	0.8276*	2.1188
	MSE =	2.044263		MSE =	2.024903	
Niacin (mg)						
Initial						
<3,000	0.2713	2.0773	19.3750	0.4451	1.1815	19.0199
3,000-6,999	0.4724	1.3016	18.9419	0.3879	1.2860	18.9322
7,000-12,999	-1.1033	-0.9789	20.0343	-1.3228	-1.1719	20.3086
>13,000	0.5887	2.5545	19.0249	0.5052	2.8366	19.4232
Missing	-0.1144	-2.4401	19.2139	-0.3440	-2.5007	19.3741
	MSE =	98.3773		MSE =	97.56338	
Followup						
<3,000	2.4698	3.4717	18.4817	2.2933	3.6106	18.3965
3,000-6,999	2.5597	4.2758	19.7457	2.5253	4.2827	19.9102
7,000-12,999	1.8577	1.9293	19.4316	2.2120*	2.1176	19.1193
>13,000	1.8159	-0.9787	19.9160	1.8896	-0.8070	20.0194
Missing	1.6381	5.6524	20.7703	0.9377	5.3932	21.2546
	MSE =	183.97		MSE =	183.1047	
Vitamin B6 (mg)						
Initial						
<3,000	0.1066	-0.0261	1.5281	0.1203	-0.0908	1.5129
3,000-6,999	0.0083	0.2629	1.5945	-0.0011	0.2639	1.6013
7,000-12,999	-0.0915	-0.1320	1.6935	-0.1085	-0.1757	1.7084
>13,000	-0.0767	0.3083	1.6228	-0.0732	0.3054	1.6579
Missing	0.0292	-0.1735	1.5599	-0.0141	-0.2173	1.5799
	MSE =	0.8757991		MSE =	0.8674726	
Followup						
<3,000	0.3185	0.0866	1.5389	0.3228	0.1194	1.5200
3,000-6,999	0.2120	0.3054	1.6759	0.2179	0.2967	1.6903
7,000-12,999	0.2477*	0.2631	1.6509	0.2978**	0.2571	1.5950
>13,000	0.1626	-0.2517	1.6811	0.1813	-0.2579	1.6872
Missing	0.2386	0.4379	1.7374	0.1626	0.3887	1.7982
	MSE =	1.667274		MSE =	1.654215	
Vitamin B12 (mcg)						
Initial						
<3,000	1.1430	-1.2506	4.4153	1.4246	-1.3524	4.0292
3,000-6,999	-1.3282	-1.8356	6.6120	-1.1806	-1.7079	6.3963
7,000-12,999	0.1348	-1.3984	5.5350	0.2798	-1.1846	5.4540
>13,000	-1.6892	-3.0926	6.8729	-1.6148	-2.9619	6.8556
Missing	0.2570	-1.1125	5.2556	0.4994	-1.0654	5.2700
	MSE =	106.053		MSE =	106.2924	
Followup						
<3,000	2.2016	3.7885	4.2237	2.4757	4.2821	3.8256
3,000-6,999	1.1037	0.7963	5.4323	1.2644	1.0804	5.2395
7,000-12,999	0.0407	-1.5701	6.8255	0.0706	-1.8284	6.8197
>13,000	0.9896	3.7698	5.7670	1.2303	3.5932	5.4713
Missing	1.4712	7.2828**	4.6713	1.2708	7.4470**	5.1044
	MSE =	145.8266		MSE =	145.1936	

(continued)

Table V-B-12 (continued)

Family Income (Annual)	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Vitamin C (mg)						
Initial						
<3,000	27.3527	6.6887	98.2962	27.0829	-2.9931	99.3388
3,000-6,999	-6.0775	25.4523	127.8561	-6.9440	25.4647	130.3509
7,000-12,999	-1.7284	-7.5410	126.5853	-1.5953	-13.5581	126.5798
>13,000	18.6346	-7.1611	110.7150	19.9313	-8.7736	114.1085
Missing	25.4352	31.7034	108.5501	18.6583	25.9690	108.1387
	MSE =	12772.39		MSE =	12359.34	
Followup						
<3,000	53.8753**	26.2015	88.2485	52.6392**	15.6424	90.2268
3,000-6,999	18.4923	20.4835	120.5180	17.3630	21.7707	122.4411
7,000-12,999	32.4022**	35.6573	115.5871	34.4555**	31.0733	112.8655
>13,000	7.2951	0.1900	127.1036	9.1883	-0.6199	127.0038
Missing	30.6912*	32.1218	120.1688	23.3215	28.5142	125.5450
	MSE =	15608.33		MSE =	15406.97	
Calories (kcal)						
Initial						
<3,000	11.7475	-110.2423	385.2567	20.3083	-81.8137	382.7796
3,000-6,999	-41.1056	-49.5948	463.7588	-43.5367	-53.1220	465.1754
7,000-12,999	59.5109*	-26.0779	385.4562	62.9362*	-30.8547	377.4833
>13,000	91.1479*	82.1580	315.5804	99.1919*	85.4044	320.5861
Missing	114.9768**	20.8783	338.8238	124.2863**	21.0790	330.2385
	MSE =	120909.1		MSE =	116306.3	
Followup						
<3,000	121.0379*	108.1729	379.1360	137.2881**	117.8630	374.9545
3,000-6,999	126.9955**	196.8236**	323.3051	128.0012**	189.5283**	328.8537
7,000-12,999	85.7456**	139.4321**	396.2806	110.2552**	143.6952**	367.1679
>13,000	122.1610**	50.2308	368.6071	135.9441**	58.8449	351.1193
Missing	165.7902**	222.3189**	330.5470	164.9376**	209.2118**	334.6085
	MSE =	113151.5		MSE =	109521.1	
Protein (g)						
Initial						
<3,000	0.3156	-5.9130	20.9785	0.8290	-3.7701	20.8696
3,000-6,999	-2.4083	-3.8198	24.9931	-2.5856	-3.9615	25.0950
7,000-12,999	3.0404*	-2.1732	20.7419	3.2942*	-2.0820	20.1806
>13,000	4.5820	4.3972	17.0656	5.1231*	4.5905	16.9645**
Missing	5.3321*	-0.4914	18.5478	5.9932**	-0.3828	18.1824
	MSE =	351.1084		MSE =	336.8061	
Followup						
<3,000	5.0334	4.1262	20.4758	5.9931*	4.8599	20.2031
3,000-6,999	6.0429**	8.4267**	16.9827	6.2546**	8.1142**	17.0992
7,000-12,999	2.3266	5.7237*	21.8881	3.6391**	5.9989*	20.3133
>13,000	6.0482**	0.9196	19.3092	6.8309**	1.3050	18.2048
Missing	7.1716**	10.2478**	17.8301	7.4434**	9.6342*	17.9543
	MSE =	304.9071		MSE =	294.351	
Fat (g)						
Initial						
<3,000	-2.1269	-8.4403	21.5702	-1.3652	-6.5125	20.7578
3,000-6,999	-2.6286	-4.1812	23.9217	-2.6105	-4.3865	23.6852
7,000-12,999	2.5577	-2.2017	19.6143*	2.8435	-2.1922	19.2982*
>13,000	4.3662	6.1719	15.6818**	4.7633	6.5212	15.9969**
Missing	5.2453*	1.2484	17.2740*	6.2699**	1.7783	16.7257*
	MSE =	357.8247		MSE =	348.2375	

(continued)

Table V-B-12 (continued)

Family Income (Annual)	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
<3,000	2.2878	2.9000	21.2888	3.3763	3.4744	20.7322
3,000-6,999	4.1004*	7.9682**	16.9112	4.3982**	7.7624**	16.8504
7,000-12,999	2.5217	4.7908	19.4041	3.5624**	5.1946	18.1450
>13,000	4.9582*	-0.7738	17.9609	5.5606*	-0.3268	16.9890
Missing	5.6593**	8.7053*	17.2080	6.2058**	8.3469*	17.2463
	MSE =	301.4892		MSE =	294.5291	
Carbohydrate (g)						
Initial						
<3,000	7.5651	-2.7723	27.5891	7.5072	-2.0068	28.8870
3,000-6,999	-1.8360	1.3025	37.9859	-2.3024	1.0327	38.7670
7,000-12,999	6.3779*	0.7509	32.2048	6.3676*	-0.4797	31.4492
>13,000	8.9492	2.2189	27.2221	9.5302*	2.1015	27.8522
Missing	12.0977**	3.0891	27.8882	11.5146**	1.8862	27.3018
	MSE =	1385.563		MSE =	1330.95	
Followup						
<3,000	20.7333**	15.5774	27.1397	21.4903**	16.2944	27.5960
3,000-6,999	16.6813**	23.3889**	26.9784	16.0089**	22.3498**	28.4285
7,000-12,999	14.4826**	18.8923**	34.1407	17.0780**	18.8519**	31.0978
>13,000	14.5916**	14.6636	32.4881	15.9807**	15.4917	31.4273
Missing	23.0306**	26.9658**	26.2667	21.3131**	25.0515**	27.0736
	MSE =	1704.925		MSE =	1657.776	
Calcium (mg)						
Initial						
<3,000	-59.0849	-275.5930	597.6103	-20.5306	-170.9862	567.5955
3,000-6,999	-90.1890	-121.0535	682.8887	-81.2627	-115.6945	673.7581
7,000-12,999	61.4365	-93.2679	551.4000	88.0603*	-58.4540	520.2264
>13,000	127.3205	96.3154	458.8650	144.2259*	117.5100	434.7732
Missing	140.7379*	-13.4620	468.8023	187.1089**	0.9167	450.9465
	MSE =	308781.7		MSE =	297648.6	
Followup						
<3,000	111.9876	62.4966	568.5008	133.7690	100.5225	554.4567
3,000-6,999	149.9124**	216.3898**	446.3454	150.8483**	207.6964*	450.6057
7,000-12,999	63.1820	94.0828	570.4974*	102.5815**	123.3165	525.3573
>13,000	159.4112*	10.2282	533.5476	182.0867**	30.0281	498.2863
Missing	156.7307*	262.6522*	498.8587	174.1205**	252.3692*	508.4106
	MSE =	259003.4		MSE =	251679.8	
Iron (mg)						
Initial						
<3,000	1.1313	0.2147	1.3736	0.9865	-0.3990	1.5713
3,000-6,999	0.5753	1.2719	2.4558	0.3813	1.2001	2.5619
7,000-12,999	0.8888	-0.2778	2.2720	0.6658	-0.6588	2.4122
>13,000	0.9307	0.1775	1.3881	0.9189	0.1452	1.6498
Missing	1.2213	-0.4809	1.7361	0.9925	-0.7375	1.9236
	MSE =	40.63497		MSE =	39.98939	
Followup						
<3,000	3.8764*	4.7935	1.5230	3.9757*	5.3981	1.4465
3,000-6,999	3.0052**	4.8316**	2.5128	2.8437*	4.5866*	2.8600
7,000-12,999	3.4587**	4.6941**	2.4862	3.9259**	4.9623**	1.9555
>13,000	4.5062**	3.4745	1.6943	4.7038**	3.7533	1.4880
Missing	4.7761**	6.5050*	1.2101	4.3450**	6.1672*	1.4913
	MSE =	127.8875		MSE =	127.041	

(continued)

Table V-B-12 (continued)

Family Income (Annual)	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Magnesium (mg)						
Initial						
<3,000	12.9922	-9.2359	68.2163	13.3199	-1.5592	70.7325
3,000-6,999	-4.9696	-0.1870	88.9596	-6.0072	-1.1743	90.3696
7,000-12,999	15.2767*	-0.5902	74.2710	15.8719**	-0.6490	71.7455
>13,000	19.9352	8.2591	66.2042	21.8782*	8.4992	65.8077
Missing	25.1407**	-4.6816	66.3431	26.2372**	-5.3166	64.7076
	MSE =	6421.629		MSE =	6121.831	
Followup						
<3,000	27.0924*	11.0901	75.1814	29.5833**	13.8425	76.1786
3,000-6,999	28.0775**	38.0058**	65.1919	27.8446**	36.2949**	67.1179
7,000-12,999	18.2937**	33.0372**	81.9446	23.4561**	33.0173**	75.3000
>13,000	25.8024*	14.9926	73.1611	28.8991**	17.0564	69.4071
Missing	36.3154**	46.0448**	65.4610	34.9787**	41.9195*	66.4859
	MSE =	6159.95		MSE =	5964.108	
Phosphorus (mg)						
Initial						
<3,000	-35.1862	-207.8458	561.7729	-14.0159	-134.4669	548.7788
3,000-6,999	-72.1662	-107.3417	643.3655	-72.9019	-107.8324	642.2401
7,000-12,999	71.1049	-66.8958	522.0915*	84.1010 *	-52.6079	503.7871*
>13,000	121.2578	101.4864	432.1846**	135.6173*	112.2422	422.8546**
Missing	130.2105*	-6.4125	462.2014*	156.9238**	1.9138	449.1497**
	MSE =	241861		MSE =	233502.1	
Followup						
<3,000	135.0517*	81.2612	516.5398	155.8245*	106.3540	508.4944
3,000-6,999	146.0479**	206.8408**	432.0604	148.9899**	199.1959**	436.0306
7,000-12,999	63.0622	135.9318	548.9823	97.5872**	151.5131*	508.5508
>13,000	159.0082**	31.4295	486.2779	177.0581**	45.1467	458.4162
Missing	171.4465**	268.0522**	461.7923	181.3131**	254.6392*	467.2068
	MSE =	205539.8		MSE =	199452.8	
Vitamin A (iu)						
Initial						
<3,000	122.0409	-343.6685	986.7322	159.5923	-356.0942	954.7779
3,000-6,999	24.0768	243.4677	1214.5278	-5.6382	257.8581	1225.2053
7,000-12,999	201.2737	-285.6246	1115.9781	209.3182	-303.1829	1102.2326
>13,000	448.9406	199.0112	754.9475	473.3874*	257.1267	761.6684
Missing	434.7998*	178.5040	843.4115	447.9438*	118.9766	861.2399
	MSE =	2998105		MSE =	2972197	
Followup						
<3,000	1075.1996*	1388.2913	832.9712	1111.4340*	1571.3679*	761.1992
3,000-6,999	892.0654**	1430.0150**	1004.4544	869.3103**	1371.1645**	1066.5174
7,000-12,999	941.9389**	1300.5043**	1135.7906	1099.3103**	1439.5436**	972.8598
>13,000	1137.4417**	343.8400	1046.9190	1201.5282**	438.7159	984.8460
Missing	1266.2576**	1983.2244**	844.6962	1187.1541**	1904.2321**	943.0138
	MSE =	9413619		MSE =	9336069	
Thiamin (mg)						
Initial						
<3,000	0.0895	-0.0304	0.2346	0.0911	-0.0525	0.2385
3,000-6,999	0.0260	0.1242	0.3276	0.0161	0.1244	0.3338
7,000-12,999	0.0735	-0.0400	0.3048	0.0692	-0.0586	0.3046
>13,000	0.1140	0.0215	0.2230	0.1185	0.0304	0.2350
Missing	0.1433*	0.0410	0.2312	0.1363*	0.0177	0.2360
	MSE =	0.28772		MSE =	0.2839571	

(continued)

Table V-B-12 (continued)

Family Income (Annual)	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
<3,000	0.3432*	0.4181	0.2277	0.3479*	0.4643	0.2189
3,000-6,999	0.2873**	0.4526**	0.2868	0.2754**	0.4323**	0.3126
7,000-12,999	0.3190**	0.4388**	0.3146	0.3638**	0.4671**	0.2657
>13,000	0.3499**	0.1841	0.2948	0.3699**	0.2122	0.2799
Missing	0.4269**	0.6052**	0.2247	0.3905**	0.5730**	0.2546
	MSE =	0.8848351		MSE =	0.8784051	
Rriboflavin (mg)						
Initial						
<3,000	0.0338	-0.2973	0.7557	0.0760	-0.2127	0.7224
3,000-6,999	-0.0400	0.0507	0.9031	-0.0419	0.0593	0.8956
7,000-12,999	0.1120	-0.1574	0.7819	0.1326	-0.1379	0.7542
>13,000	0.2294	0.1225	0.6101*	0.2502*	0.1558	0.5976*
Missing	0.2555*	-0.0164	0.6300*	0.3006**	-0.0213	0.6229*
	MSE =	0.7996304		MSE =	0.7796205	
Followup						
<3,000	0.3619*	0.5177	0.7802	0.3831*	0.6151*	0.7549
3,000-6,999	0.3953**	0.6152**	0.6809	0.3870**	0.5873**	0.7067
7,000-12,999	0.3517**	0.5050**	0.8136	0.4314**	0.5706**	0.7249
>13,000	0.5061**	0.0939	0.7357	0.5438**	0.1408	0.6870
Missing	0.5252**	0.8342**	0.6748	0.5125**	0.8020**	0.7154
	MSE =	1.534903		MSE =	1.508859	
Niacin (mg)						
Initial						
<3,000	0.8977	-0.0436	0.8428	0.8854	-0.4093	0.8737
3,000-6,999	0.7115	1.9103	1.4310	0.6167	1.9275	1.4557
7,000-12,999	0.7657	-0.4160	1.5103	0.6876	-0.5379	1.5467
>13,000	1.3421	0.0878	0.8643	1.3557	0.2534	0.9417
Missing	1.2331	0.0046	0.8319	1.2005	-0.1917	0.9603
	MSE =	38.47505		MSE =	38.26233	
Followup						
<3,000	3.2821	4.5114	1.2181	3.3387	5.2061	1.0292
3,000-6,999	2.9109*	5.0248**	1.9850	2.7708*	4.8048*	2.2676
7,000-12,999	3.6465**	4.6945*	1.6508	4.1116**	5.1995**	1.1554
>13,000	4.2521**	2.1374	1.3399	4.4697**	2.5624	1.1326
Missing	4.4930**	7.0829**	0.8270	4.1080**	6.7353*	1.2015
	MSE =	141.5845		MSE =	140.9264	
Vitamin B6 (mg)						
Initial						
<3,000	0.0996	0.0221	0.2302	0.0900	-0.0079	0.2514
3,000-6,999	0.0422	0.1592	0.3340	0.0220	0.1513	0.3489
7,000-12,999	0.0881	-0.0687	0.3122	0.0779	-0.0951	0.3128
>13,000	0.1132	0.0151	0.2369	0.1173	0.0183	0.2482
Missing	0.1579	-0.0246	0.2258	0.1466	-0.0545	0.2361
	MSE =	0.4498859		MSE =	0.4434863	
Followup						
<3,000	0.3891*	0.4847	0.2377	0.3895*	0.5471	0.2335
3,000-6,999	0.3320**	0.5155*	0.3123	0.3157**	0.4902*	0.3469
7,000-12,999	0.3795**	0.5433**	0.3287	0.4275**	0.5796**	0.2726
>13,000	0.4428**	0.1671	0.2808	0.4641**	0.1994	0.2660
Missing	0.5134**	0.7180**	0.2299	0.4634**	0.6751*	0.2672
	MSE =	1.497412		MSE =	1.487256	

(continued)

Table V-B-12 (continued)

Family Income (Annual)	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Vitamin B12 (mcg)						
Initial						
<3,000	0.1795	-0.6586	1.8282	0.2802	-0.5374	1.7412
3,000-6,999	-0.0419	0.2972	2.2096	-0.0651	0.3242	2.1952
7,000-12,999	0.2832	-0.4572	1.9896	0.3109	-0.4562	1.9473
>13,000	0.6080	0.3671	1.4536*	0.6610*	0.4516	1.4488*
Missing	0.6605*	0.0013	1.5827	0.7421*	-0.0488	1.5939
	MSE =	6.229872		MSE =	6.106961	
Followup						
<3,000	1.1609*	1.8375	1.8593	1.2143*	2.1150*	1.7764
3,000-6,999	1.1677**	1.8615**	1.7550	1.1419**	1.7750**	1.8305
7,000-12,999	1.1021**	1.6154**	2.0675	1.3251**	1.8075**	1.8244
>13,000	1.6168**	0.2186	1.7465	1.7191**	0.3544	1.6249
Missing	1.6387**	2.5530**	1.6292	1.5800**	2.4608**	1.7576
	MSE =	15.56454		MSE =	15.36559	
Vitamin C (mg)						
Initial						
<3,000	15.8055	3.6283	31.0261	15.6405	-3.0201	31.9272
3,000-6,999	0.1360	12.4600	43.0345	-0.2621	13.1243	44.4138
7,000-12,999	7.8387	5.2619	42.1075	7.7996	0.9505	42.1809
>13,000	16.7256	3.4329	32.4045	16.9202	4.0472	35.7593
Missing	21.8979*	38.1672	34.1794	18.0302	33.7031	33.0454
	MSE =	7804.461		MSE =	7639.262	
Followup						
<3,000	51.1508**	48.1974	16.3659	51.1933**	42.9349	16.0749
3,000-6,999	31.9645**	50.7526**	31.4732	30.9018**	49.1541**	33.0547
7,000-12,999	36.2852**	45.7177**	38.8557	39.8222**	43.8728**	35.8521
>13,000	16.3299	15.5570	50.3849	18.2370	16.4078	52.1049
Missing	45.2019**	50.0145*	31.2704	40.4120**	47.5197*	33.2962
	MSE =	11045.62		MSE =	10904.09	
WIC Status						
Income (dollars/100)	WIC	WIC/Control	Control	Total		
<3,000	447	23	51	521		
3,000 - 6,999	885	57	116	1,058		
7,000 - 12,999	724	53	210	987		
>13,000	268	21	72	361		
Missing	438	27	81	546		
Total	2,762	181	530	3,473		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/Control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control group and differences from Control group means for WIC and WIC/Control groups.

^bInitial interviews controlled for duration of gestation at registration into study. Followup interviews controlled for duration of gestation at both interviews.^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews controlled for duration of gestation at both interviews and maternal characteristics at registration into study. See Appendix V-C-1 for full covariate list.

Table V-B-13

Mean Daily Dietary Intake at Initial and Followup Interviews
by WIC Status^a and Receipt of AFDC and Food Stamps

Participation Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Total Intake Per Day						
Calories						
Initial						
Nonparticipants	-21.5395	63.3993	1989.2741	4.5033	73.4332	1946.1068
AFDC Only	273.8366	-297.1512	1716.7667	314.7144	-200.8414	1677.4215
Food Stamps Only	-138.1142	-197.8451	2127.6100	-132.0873	-171.2512	2150.2983
AFDC and Foodstamp	77.7996	332.3601	1958.7348	73.2868	325.7586	2003.8160
	MSE =	834964.6		MSE =	812808.3	
Followup						
Nonparticipants	99.9603*	94.4278	1924.7657	111.4881*	90.4307	1905.0180
AFDC Only	39.0438	66.4774	2170.4907	68.7271	-105.1768	2142.2063
Food Stamps Only	106.1809	256.3007	1896.0130	144.9626	268.0051	1873.4047
AFDC and Foodstamp	-58.3485	179.3663	1985.9328	-8.5764	189.4537	1968.4925
	MSE =	676513.3		MSE =	658021.9	
Protein (g)						
Initial						
Nonparticipants	0.1898	-0.3663	79.1203	0.9045	0.1655	77.7349
AFDC Only	7.0963	-12.4154	71.4325	8.1234	-6.5165	70.4415
Food Stamps Only	-8.8956*	-16.2674*	87.4091	-9.4940*	-15.4230*	89.1376
AFDC and Foodstamp	3.2422	13.7296	80.2351	2.7343	13.3422	81.6556
	MSE =	1695.067		MSE =	1656.74	
Followup						
Nonparticipants	4.0507	3.6019	77.1581	5.0668*	4.0208	75.9037
AFDC Only	-0.4491	20.2198	90.4863	1.5005	11.3650	88.6635
Food Stamps Only	4.9266	12.6797	74.3519	6.5699	13.7381	73.4656
AFDC and Foodstamp	1.2915	6.8921	76.3952	4.3636	8.4456	74.4851
	MSE =	1605.257		MSE =	1551.889	
Fat (g)						
Initial						
Nonparticipants	-0.3881	1.6202	83.4900	1.3298	2.9774	81.2181
AFDC Only	13.5367	-27.2317	75.8463	15.4029	-23.4401	73.9065
Food Stamps Only	-12.8703*	-20.9897*	97.2143	-12.4080*	-18.4199*	97.9421**
AFDC and Foodstamp	1.9765	5.4541	84.6926	2.2792	5.8439	85.8722
	MSE =	2383.602		MSE =	2314.51	
Followup						
Nonparticipants	2.9602	0.8284	79.9629	4.2897	1.7205	78.6189
AFDC Only	2.7209	54.7897	86.5207	4.1270	45.4899	84.7747
Food Stamps Only	6.1249	7.9100	77.5126	7.8332	10.7378	76.1576
AFDC and Foodstamp	-5.1339	6.7177	85.1456	-2.0806	7.6648	83.3872
	MSE =	1961.044		MSE =	1913.654	
Carbohydrate (g)						
Initial						
Nonparticipants	-4.8342	11.5716	235.0919	-2.4800	10.7691	230.0911
AFDC Only	29.7085	-0.3073	191.0615	35.3754	11.9584	186.2160
Food Stamps Only	4.0134	15.0685	228.8541	5.1995	15.0641	231.4079
AFDC and Foodstamp	16.9957	62.4718	218.7439	16.1224	60.8003	226.3355
	MSE =	13051.03		MSE =	12822.94	

(continued)

Table V-B-13 (continued)

Participation Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Calcium (mg)						
Followup						
Nonparticipants	14.7356*	18.3204	228.2851	14.0832*	15.3764	226.8280
AFDC Only	7.2020	-140.2418	261.8649	9.7956	-152.5571	260.7011
Food Stamps Only	7.3432	30.0933	230.1661	11.4764	25.7446	228.9374
AFDC and Foodstamp	-5.2235	23.0114	233.9630	-2.6332	22.0804	236.1587
	MSE =	11034.88		MSE =	10789.72	
Initial						
Nonparticipants	26.2158	-25.2096	942.3295	69.7274	13.9470	874.4461
AFDC Only	42.1682	-99.6725	919.2347	132.2568	162.6019	893.4809
Food Stamps Only	-25.5795	-63.4537	961.2397	-35.6951	-29.4593	993.6802
AFDC and Foodstamp	-44.7348	-117.5432	994.6689	-12.6649	-56.3088	1037.1513
	MSE =	435285.7		MSE =	419100	
Followup						
Nonparticipants	84.9107*	114.8622	931.1962	110.0424**	136.3799*	888.5384
AFDC Only	117.7201	-649.6336	1010.6777	180.5748	-625.2244	995.3490
Food Stamps Only	178.6503**	334.9522**	801.7109	190.7319**	344.6650**	804.1839
AFDC and Foodstamp	141.9299	123.3653	792.7416	176.1511	150.6529	819.0778
	MSE =	343496.6		MSE =	333678.8	
Iron (mg)						
Initial						
Nonparticipants	-0.2508	-0.8519	14.4588	-0.2617	-0.9708	14.3935
AFDC Only	5.4050*	-1.4348	10.4974	5.8830*	-0.8287	9.9589
Food Stamps Only	-0.5462	-2.0939	14.8824	-0.5109	-2.2456	15.0124
AFDC and Foodstamp	1.5710	9.0347**	13.4706	1.4705	8.4923**	13.6495
	MSE =	91.64226		MSE =	91.10857	
Followup						
Nonparticipants	3.3882**	3.7262**	14.2669	3.4372**	3.8052**	13.9437
AFDC Only	4.2415	-0.4507	15.9156	5.0683	-1.8218	15.3769
Food Stamps Only	2.6491	8.8363**	13.3506	2.5522	8.5960**	13.7159
AFDC and Foodstamp	0.5364	-1.2156	16.5711	0.7127	-0.8048	16.9696
	MSE =	177.4591		MSE =	175.0107	
Magnesium (mg)						
Initial						
Nonparticipants	-2.4190	-2.9924	264.2233	3.8850	0.3007	252.9174
AFDC Only	41.2325	109.1034	216.2339	62.9657	162.8142	203.3310
Food Stamps Only	2.1020	-16.1308	250.6657	2.2227	-13.6611	256.4714
AFDC and Foodstamp	35.1076	63.8874	232.7148	42.2853	73.6664	238.8764
	MSE =	20640.99		MSE =	20156.62	
Followup						
Nonparticipants	22.2908**	16.6090	249.3790	26.3667**	19.1834	242.2192
AFDC Only	8.8901	-165.6382	304.5025	14.9614	-169.8584	305.3403
Food Stamps Only	21.1268	43.6750	242.0432	24.7453	42.3980	242.0813
AFDC and Foodstamp	11.0963	1.1016	242.8895	18.4941	7.3624	244.8783
	MSE =	16818.69		MSE =	16285.63	

(continued)

Table V-B-13 (continued)

Participation Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Phosphorus (mg)						
Initial						
Nonparticipants	-6.4604	-25.9988	1354.9147	26.9327	3.3773	1296.6428
AFDC Only	106.2759	72.6834	1217.6362	204.5418	328.0031	1167.5444
Food Stamps Only	-97.8817	-200.3792	1411.0766	-104.1759	-180.0136	1444.9436
AFDC and Foodstamp	23.5836	92.9215	1353.1976	43.0227	126.0103	1398.0859
	MSE =	510252		MSE =	496707.9	
Followup						
Nonparticipants	89.9649*	116.3316	1301.3575	108.6928**	124.6103	1269.9575
AFDC Only	95.5665	-285.7759	1446.8971	169.2604	-321.7494	1405.9542
Food Stamps Only	182.9775**	329.1372**	1177.5544	202.8890**	333.6678**	1171.7586
AFDC and Foodstamp	109.2937	155.7090	1208.9343	159.5125	191.9578	1204.2862
	MSE =	411661.9		MSE =	397607	
Vitamin A (IU)						
Initial						
Nonparticipants	352.0162	-485.7691	5909.1865	390.6557	-487.3290	5860.4531
AFDC Only	2080.6085	-1036.9771	4326.9386	1867.5993	-1688.2536	4487.7451
Food Stamps Only	369.1772	393.8180	5369.1115	270.3564	293.6496	5568.4977
AFDC and Foodstamp	472.6020	15.8689	6103.6555	657.3634	-76.6364	5807.3144
	MSE =	85309557		MSE =	84630029	
Followup						
Nonparticipants	1238.3452*	355.8266	5930.4876	1388.5344**	372.7402	5605.2923
AFDC Only	-6713.9607*	-12921.2	14223.1811***	-6728.2834*	-14089.5	14485.1288***
Food Stamps Only	725.9853	4187.8858*	5676.9516	708.4560	4117.0144*	5933.0446
AFDC and Foodstamp	-3334.2167	-1881.8500	9784.5859	-2903.8656	-1675.0764	9720.2534
	MSE =	83409379		MSE =	82198463	
Thiamin (mg)						
Initial						
Nonparticipants	0.0137	0.0407	1.4729	0.0182	0.0310	1.4572
AFDC Only	0.3453	1.0129	1.2706	0.3872	1.1046	1.2105
Food Stamps Only	0.0600	-0.0757	1.4536	0.0727	-0.0823	1.4661
AFDC and Foodstamp	0.1825	0.6683*	1.3788	0.1726	0.6246*	1.4044
	MSE =	0.9937225		MSE =	0.9794124	
Followup						
Nonparticipants	0.3617**	0.4740**	1.4259	0.3552**	0.4724**	1.4014
AFDC Only	0.3619	-0.7864	1.6384	0.4068	-0.9308	1.6294
Food Stamps Only	0.3308**	0.7216**	1.3577	0.3115*	0.6891**	1.4022
AFDC and Foodstamp	0.0948	-0.0711	1.6133	0.0921	-0.0445	1.6755
	MSE =	1.468357		MSE =	1.441599	
Riboflavin (mg)						
Initial						
Nonparticipants	-0.0056	-0.1120	2.0403	0.0540	-0.0524	1.9468
AFDC Only	0.5055	0.4067	1.6291	0.6225	0.7035	1.5844
Food Stamps Only	0.1045	-0.0670	1.9136	0.0994	-0.0210	1.9583
AFDC and Foodstamp	0.0668	0.5414	2.0241	0.0932	0.5513	2.0920
	MSE =	2.155088		MSE =	2.131096	

(continued)

Table V-B-13 (continued)

Participation Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Followup						
Nonparticipants	0.4018**	0.4668**	1.9834	0.4351**	0.4973**	1.9051
AFDC Only	0.1666	-1.2809	2.5092	0.3161	-1.3819	2.4470
Food Stamps Only	0.2554	0.9996**	1.9661	0.2473	1.0165**	2.0127
AFDC and Foodstamp	-0.0464	-0.2216	2.2959	0.0334	-0.1030	2.3343
	MSE =	2.846596		MSE =	2.792504	
Niacin (mg)						
Initial						
Nonparticipants	-0.7701	-0.3543	19.6744	-0.6030	-0.2666	19.4843
AFDC Only	4.7033	-8.6035	15.8776	4.8333	-8.4876	15.3237
Food Stamps Only	-1.3877	-3.7984	20.2557	-1.1865	-3.6499	20.3269
AFDC and Foodstamp	3.0350	14.3647**	17.6064	2.9393	13.7051**	17.6036
	MSE =	167.0635		MSE =	164.9134	
Followup						
Nonparticipants	3.6430**	4.3824*	18.7245	3.7570**	4.4560**	18.3233
AFDC Only	-1.4666	-4.9661	26.2867	-0.8845	-7.5319	25.8760
Food Stamps Only	2.8417	7.1411*	18.2503	2.7823	7.1317*	18.6503
AFDC and Foodstamp	-0.6215	0.6351	21.5218	-0.1883	1.1604	21.6813
	MSE =	258.3963		MSE =	254.3776	
Vitamin B6 (mg)						
Initial						
Nonparticipants	-0.1039	-0.0873	1.6772	-0.0959	-0.0965	1.6517
AFDC Only	0.5313	1.2009	1.2247	0.5811	1.3038	1.1713
Food Stamps Only	-0.0553	-0.2160	1.6109	-0.0466	-0.2328	1.6327
AFDC and Foodstamp	0.3758	1.5098**	1.3214	0.3660	1.4509**	1.3631
	MSE =	1.379848		MSE =	1.368453	
Followup						
Nonparticipants	0.3489**	0.3166*	1.6163	0.3604**	0.3083*	1.5629
AFDC Only	0.2031	-1.0848	2.0385	0.3148	-1.2238	1.9792
Food Stamps Only	0.3415*	0.8269**	1.4313	0.3465*	0.7866**	1.4678
AFDC and Foodstamp	0.0031	-0.3781	1.8492	0.0542	-0.3153	1.9005
	MSE =	2.203922		MSE =	2.166565	
Vitamin B12 (MCG)						
Initial						
Nonparticipants	-0.3670	-1.8696	5.8519	-0.1408	-1.6782	5.5602
AFDC Only	1.6701	-1.6133	3.5664	2.1980	-1.2033	3.1968
Food Stamps Only	-0.2368	-1.1966	5.3186	-0.0906	-0.8922	5.3234
AFDC and Foodstamp	-3.8729	-3.3583	9.8473	-3.5459	-3.5560	9.7266
	MSE =	111.522		MSE =	111.6431	
Followup						
Nonparticipants	1.4409*	0.6220	5.4239	1.6860*	0.6853	5.0365
AFDC Only	-3.7066	-5.4220	11.1925	-3.0309	-6.1366	10.8260
Food Stamps Only	1.6852	8.2213**	4.3865	1.6572	8.3138**	4.6609
AFDC and Foodstamp	-3.5104	-2.4624	9.9107	-2.9004	-1.7090	9.5833
	MSE =	154.3154		MSE =	153.6272	

(continued)

Table V-B-13 (continued)

Participation Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Vitamin C (mg)						
Initial						
Nonparticipants	6.6307	3.8750	122.4972	6.0553	1.0818	120.6107
AFDC Only	46.6602	-74.0727	75.9994	34.2373	-77.1612	85.6562
Food Stamps Only	-2.2599	8.6680	120.8514	-2.5556	5.5571	125.4629
AFDC and Foodstamp	26.5428	73.8498	99.9162	25.0220	69.6755	103.8393
	MSE =	15025.22		MSE =	14563.43	
Followup						
Nonparticipants	36.1018**	33.2652*	112.0417	36.4217**	30.6131*	109.6892
AFDC Only	47.3086	-71.7331	106.0235	32.9157	-95.9225	119.0172
Food Stamps Only	17.7301	46.8990	117.7590	19.2260	42.0650	119.9238
AFDC and Foodstamp	29.9924	-0.5847	111.0838	31.2936	4.8043	112.6097
	MSE =	17471.28		MSE =	17203.29	
Total Intake Adjusted for Caloric Intake						
Protein (g)						
Initial						
Nonparticipants	1.0097	-2.7794	79.2710	0.7333	-2.6270	79.5270
AFDC Only	-3.3263	-1.1053	81.9553	-3.8445	1.1210	82.4511
Food Stamps Only	-3.6388	-8.7371*	82.2945	-4.4710*	-8.9107*	83.1648
AFDC and Foodstamp	0.2811	1.0794	81.5482	-0.0526	0.9543	81.2532
	MSE =	485.6055		MSE =	481.4691	
Followup						
Nonparticipants	0.3765	-0.8639	80.0682	0.8352	-0.2437	79.7441
AFDC Only	-3.4953	18.2976	85.0850	-2.8806	16.2593	84.6022
Food Stamps Only	0.4499	1.4644	78.5666	0.4459	2.0616	78.6227
AFDC and Foodstamp	3.4152	-0.9912	77.4316	4.4787	0.2373	75.9930
	MSE =	525.8474		MSE =	519.4902	
Fat (g)						
Initial						
Nonparticipants	0.6443	-1.4187	83.6798	1.1146	-0.5318	83.4702
AFDC Only	0.4113	-12.9888	89.0978	0.3634	-13.8423	88.9984
Food Stamps Only	-6.2502**	-11.5066**	90.7734**	-6.0958**	-10.2362*	90.4363**
AFDC and Foodstamp	-1.7526	-10.4764	86.3462	-1.2230	-9.7233	85.3665
	MSE =	465.4508		MSE =	458.4607	
Followup						
Nonparticipants	-1.5225	-4.0678	83.3839	-0.7503	-2.8680	83.0856
AFDC Only	0.0718	50.1950*	80.3832	-0.0700	48.5203*	80.0446
Food Stamps Only	0.4307	-5.6035	83.1642	0.3117	-3.2048	82.7446
AFDC and Foodstamp	-3.0127	-4.7862	86.3228	-2.1716	-4.1593	85.0521
	MSE =	438.586		MSE =	423.0266	
Carbohydrate (g)						
Initial						
Nonparticipants	-2.5364	4.8080	235.5144	-2.9621	2.9084	235.1358
AFDC Only	0.4952	31.3933	220.5555	1.6866	33.4576	220.0223
Food Stamps Only	18.7477**	36.1749**	214.5186**	19.3388**	33.3958**	214.5948**
AFDC and Foodstamp	8.6960	27.0151	222.4243	8.2773	25.9292	225.2028
	MSE =	3549.352		MSE =	3510.199	

(continued)

Table V-B-13 (continued)

Participation Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Followup						
Nonparticipants	3.9376	9.1134	236.8133	1.8233	6.1006	237.6069
AFDC Only	1.5844	-138.9350*	243.2917	1.0982	-133.5039*	245.1933
Food Stamps Only	0.9551	12.0073	236.5697	1.0222	5.5296	237.6829
AFDC and Foodstamp	2.3612	8.1695	233.4923	-0.3921	5.8021	237.9074
	MSE =	3604.88		MSE =	3530.735	
Calcium (mg)						
Initial						
Nonparticipants	36.2853	-54.8479	944.1806	67.6190*	-20.4331	896.5101
AFDC Only	-85.8467	39.2415	1048.4793	-15.0870	256.6323	1041.3386
Food Stamps Only	38.9869	29.0361	898.4207	26.1459	50.7175	920.1454
AFDC and Foodstamp	-81.1050	-272.9170	1010.7967	-46.9765	-208.8232	1032.1969
	MSE =	252882.9		MSE =	241007.1	
Followup						
Nonparticipants	49.2439	65.6943	961.8262	71.7908**	92.4709	924.1473
AFDC Only	75.2844	-655.8107	968.1264	132.7179	-540.1459	965.0047
Food Stamps Only	146.9429**	243.1215**	831.4199	140.8126**	248.7352**	844.8338
AFDC and Foodstamp	152.8583	-1.2842	807.3167	170.5508	29.9966	841.1306
	MSE =	223439.2		MSE =	217106.9	
Iron (mg)						
Initial						
Nonparticipants	-0.1075	-1.2737	14.4851	-0.2920	-1.4648	14.7105
AFDC Only	3.5833	0.5420	12.3366	3.7660	0.5223	12.0833
Food Stamps Only	0.3726	-0.7777	13.9885	0.3776	-1.0936	13.9559
AFDC and Foodstamp	1.0535	6.8237**	13.7001	0.9775	6.3010**	13.5783
	MSE =	54.70609		MSE =	54.34724	
Followup						
Nonparticipants	2.6051**	2.7209*	14.8841	2.5148**	2.8129*	14.7931
AFDC Only	4.0631	-0.5390	14.6309	4.6152	-0.6933	14.3507
Food Stamps Only	2.0222	6.9281**	13.9619	1.6197	6.5495**	14.4675
AFDC and Foodstamp	1.0543	-2.1399	16.6296	0.8214	-1.8961	17.0981
	MSE =	132.2391		MSE =	131.8907	
Magnesium (mg)						
Initial						
Nonparticipants	0.2181	-10.7545	264.7081	3.3316	-8.7238	258.7090
AFDC Only	7.7059	145.4844	250.0825	24.2894	187.4963	242.1423
Food Stamps Only	19.0117*	8.0919	234.2136**	18.4553*	7.3846	237.1692*
AFDC and Foodstamp	25.5824	23.1956	236.9386	33.2788	33.6327	237.5760
	MSE =	8127.421		MSE =	7883.223	
Followup						
Nonparticipants	10.7363*	2.7727	259.2532	13.6709**	6.1396	253.9119
AFDC Only	2.1548	-145.6004	286.0149	7.1512	-124.0889	289.2268
Food Stamps Only	13.2008	16.5994	248.7412	12.0320	13.5821	251.7438
AFDC and Foodstamp	21.7335	-20.0499	241.0277	24.4375	-13.1029	244.7506
	MSE =	6940.553		MSE =	6732.512	

(continued)

Table V-B-13 (continued)

Participation Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Phosphorus (mg)						
Initial						
Nonparticipants	7.6331	-67.4813	1357.5055	23.9794	-44.7806	1327.5490
AFDC Only	-72.8973	267.1114	1398.5304	-1.8501	459.7162	1374.6562
Food Stamps Only	-7.5127	-70.9278	1323.1534	-17.5522	-67.7059	1341.9396
AFDC and Foodstamp	-27.3212	-124.5440	1375.7705	-5.0393	-87.6244	1391.1460
	MSE =	152833.4		MSE =	147176.2	
Followup						
Nonparticipants	29.0955	40.1965	1352.4097	42.7743*	55.6161	1329.2383
AFDC Only	44.0872	-263.0101	1362.1600	112.3505	-159.2133	1335.3446
Food Stamps Only	119.4966**	159.8395*	1234.8237**	113.0843**	157.4097*	1245.8296*
AFDC and Foodstamp	138.5976	3.6268	1225.6506	161.8644*	42.2010	1232.9951
	MSE =	133998.5		MSE =	129634.5	
Vitamin A (IU)						
Initial						
Nonparticipants	407.9822	-650.4991	5919.4749	378.8949	-679.1075	5983.5303
AFDC Only	1369.1004	-264.8910	5045.2814	1045.6890	-1163.7347	5312.5226
Food Stamps Only	728.0384	907.8778	5019.9625	615.3165	740.8904	5158.3069
AFDC and Foodstamp	270.4557	-847.7006	6193.2940	465.9671	-927.3898	5779.6777
	MSE =	79695634		MSE =	79109350	
Followup						
Nonparticipants	968.2506	8.7712	6155.4068	1066.5716*	33.7897	5919.7632
AFDC Only	-6996.1180**	-12910.9	13893.3586**	-7130.0454**	-13662.6	14273.4900***
Food Stamps Only	529.1483	3590.0002*	5863.6797	388.8431	3464.2617*	6174.6967
AFDC and Foodstamp	-3205.3495	-2682.1897	9855.3043	-2916.2196	-2492.1711	9799.4082
	MSE =	76929910		MSE =	76026173	
Thiamin (mg)						
Initial						
Nonparticipants	0.0294	-0.0055	1.4758	0.0149	-0.0228	1.4918
AFDC Only	0.1456	1.2296	1.4723	0.1566	1.2517	1.4419
Food Stamps Only	0.1608*	0.0686	1.3556	0.1695*	0.0432	1.3511
AFDC and Foodstamp	0.1258	0.4258	1.4039	0.1189	0.3859	1.3966
	MSE =	0.5496944		MSE =	0.5431728	
Followup						
Nonparticipants	0.2904**	0.3932**	1.4814	0.2710**	0.3922**	1.4784
AFDC Only	0.3216	-0.6394	1.5323	0.3409	-0.6673	1.5464
Food Stamps Only	0.2853**	0.5537**	1.4042	0.2366*	0.5077**	1.4630
AFDC and Foodstamp	0.1485	-0.1888	1.6150	0.1059	-0.1751	1.6854
	MSE =	1.044066		MSE =	1.037585	
Riboflavin (mg)						
Initial						
Nonparticipants	0.0157	-0.1748	2.0442	0.0495	-0.1256	1.9937
AFDC Only	0.2344	0.7009	1.9028	0.3091	0.9035	1.8990
Food Stamps Only	0.2412*	0.1289	1.7805	0.2309	0.1495	1.8019
AFDC and Foodstamp	-0.0102	0.2123	2.0583	0.0202	0.2268	2.0815
	MSE =	1.336974		MSE =	1.325195	

(continued)

Table V-B-13 (continued)

Participation Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Followup						
Nonparticipants	0.3008**	0.3337*	2.0664	0.3223**	0.3746*	2.0095
AFDC Only	0.1070	-1.2170	2.3587	0.2282	-1.1315	2.3330
Food Stamps Only	0.1941	0.7735**	2.0252	0.1424	0.7778**	2.0949
AFDC and Foodstamp	0.0030	-0.4419	2.3199	0.0336	-0.3296	2.3721
	MSE =	2.03829		MSE =	2.020379	
Niacin (mg)						
Initial						
Nonparticipants	-0.5735	-0.9330	19.7105	-0.6442	-0.9378	19.9150
AFDC Only	2.2039	-5.8913	18.4010	1.9568	-6.6519	18.2103
Food Stamps Only	-0.1271	-1.9926	19.0292	0.0208	-2.0846	18.8913
AFDC and Foodstamp	2.3249	11.3311**	17.9213	2.2695	10.7276**	17.5069
	MSE =	97.53359		MSE =	97.03843	
Followup						
Nonparticipants	2.5881**	3.1992*	19.5526	2.5460**	3.3115*	19.4368
AFDC Only	-2.0482	-5.8826	24.8933	-1.8629	-6.9268	24.8233
Food Stamps Only	1.9639	4.5961	19.0673	1.5291	4.4475	19.6364
AFDC and Foodstamp	0.1380	-0.3531	21.5535	0.0501	-0.0293	21.7748
	MSE =	183.9874		MSE =	183.2911	
Vitamin B6 (mg)						
Initial						
Nonparticipants	-0.0871	-0.1369	1.6803	-0.0995	-0.1545	1.6889
AFDC Only	0.3168	1.4337	1.4413	0.3327	1.4623	1.4206
Food Stamps Only	0.0529	-0.0610	1.5056	0.0577	-0.0976	1.5087
AFDC and Foodstamp	0.3148	1.2494**	1.3484	0.3082	1.1938**	1.3547
	MSE =	0.8676682		MSE =	0.8623007	
Followup						
Nonparticipants	0.2552**	0.2093	1.6913	0.2532**	0.2034	1.6609
AFDC Only	0.1636	-0.9385	1.9130	0.2452	-0.9487	1.8834
Food Stamps Only	0.2747*	0.6247**	1.4920	0.2466	0.5697*	1.5447
AFDC and Foodstamp	0.0788	-0.4428	1.8377	0.0841	-0.3985	1.8998
	MSE =	1.660169		MSE =	1.65172	
Vitamin B12 (mcg)						
Initial						
Nonparticipants	-0.3108	-2.0349	5.8622	-0.1524	-1.8689	5.6825
AFDC Only	0.9559	-0.8384	4.2874	1.3808	-0.6818	4.0169
Food Stamps Only	0.1234	-0.6806	4.9681	0.2524	-0.4475	4.9155
AFDC and Foodstamp	-4.0758	-4.2251	9.9373	-3.7362	-4.4019	9.6991
	MSE =	105.874		MSE =	106.1936	
Followup						
Nonparticipants	1.1073	0.1963	5.6998	1.2907	0.2710	5.4169
AFDC Only	-4.0697	-5.4083	10.8277	-3.5247	-5.6009	10.5865
Food Stamps Only	1.4391	7.4880**	4.6248	1.2700	7.5183**	4.9603
AFDC and Foodstamp	-3.4530	-3.4624	10.0802	-3.0009	-2.7350	9.7634
	MSE =	145.4822		MSE =	144.9937	

(continued)

Table V-B-13 (continued)

Participation Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Vitamin C (mg)						
Initial						
Nonparticipants	7.7502	0.5799	122.7030	5.8219	-2.7233	123.0528
AFDC Only	32.4281	-58.6289	90.3681	17.9294	-66.7541	102.0209
Food Stamps Only	4.9183	18.9506	113.8675	4.2888	14.4310	117.3241
AFDC and Foodstamp	22.4993	56.5761	101.7092	21.2244	52.7954	103.2909
	MSE =	12773.53		MSE =	12384.58	
Followup						
Nonparticipants	31.6170**	27.7551*	115.8440	30.9624**	25.0690	115.0060
AFDC Only	43.5445	-74.2756	99.1014	26.6309	-91.0305	114.4151
Food Stamps Only	14.1039	36.9061	121.0933	13.4775	30.9456	124.3456
AFDC and Foodstamp	33.1041	-11.0247	111.1909	31.8248	-6.1803	113.2026
	MSE =	15598.05		MSE =	15388.79	
Intake from Potential WIC Foods						
Calories (kcal)						
Initial						
Nonparticipants	45.0060*	-21.8165	384.4214	51.5334**	-20.1591	367.6868
AFDC Only	85.7887	-60.0479	382.5260	128.7632	72.3935	365.5427
Food Stamps Only	31.1649	-11.2000	380.8126	29.4375	-13.3114	391.4518
AFDC and Foodstamp	0.2261	-29.3007	441.2725	15.6528	-4.5971	451.7948
	MSE =	121408.9		MSE =	116811.7	
Followup						
Nonparticipants	104.2317**	121.1926**	384.9864	109.8889**	120.3777**	369.3534
AFDC Only	199.0623*	-110.5048	332.2252	239.2102*	-80.4880	312.0028
Food Stamps Only	146.8217**	278.9567**	315.0378	157.7139**	268.9815**	314.2476
AFDC and Foodstamp	186.9159*	149.8061	269.4513	202.4792**	161.4830	282.7647
	MSE =	113001.8		MSE =	109452	
Protein (g)						
Initial						
Nonparticipants	2.1211*	-1.7695	20.7419	2.6134*	-1.4448	19.6599
AFDC Only	4.3017	1.4384	20.0628	7.1232	9.5978	18.9476
Food Stamps Only	1.2587	-1.6174	20.7760	0.9784	-1.6632	21.5241
AFDC and Foodstamp	-0.2954	-3.6493	23.9497	0.5328	-2.1012	24.6602
	MSE =	352.4142		MSE =	338.2105	
Followup						
Nonparticipants	3.9483**	4.5230*	20.8666	4.3346**	4.5130*	19.9733
AFDC Only	9.1756	-5.5169	17.9028	11.9927*	-3.3271	16.3480
Food Stamps Only	7.0531**	12.3935**	16.5848	7.7214**	11.9318**	16.4081
AFDC and Foodstamp	7.4589	6.7906	15.5108	8.5190*	7.5239	16.0702
	MSE =	304.8302		MSE =	294.4635	
Fat (g)						
Initial						
Nonparticipants	1.7058	-0.8545	19.3353	2.3254*	-0.4811	18.3230
AFDC Only	3.2822	-18.8256	20.6178	6.1257	-12.6999	19.1744
Food Stamps Only	0.2512	-2.3307	20.7232	0.3849	-2.3159	20.9509
AFDC and Foodstamp	-2.2331	-6.6063	24.3762	-1.1096	-5.0136	24.5381
	MSE =	359.2468		MSE =	349.8477	

(continued)

Table V-B-13 (continued)

Participation Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Followup						
Nonparticipants	2.9879**	3.8898*	19.4762	3.2892**	3.9297*	18.9444
AFDC Only	5.9367	0.9612	18.4288	8.5725	1.5892	16.7316
Food Stamps Only	5.6344**	9.3592**	16.2654	6.2380**	9.2808**	15.8215
AFDC and Foodstamp	8.7385*	11.0907*	12.2409	9.8748*	11.2295*	12.1993
	MSE =	301.6375		MSE =	294.7541	
Carbohydrate (g)						
Initial						
Nonparticipants	5.5574**	-1.7081	32.6498	5.3366*	-2.4102	31.7616
AFDC Only	9.6797	27.1730	30.2467	11.2665	38.7219	30.3513
Food Stamps Only	6.4520	4.4797	28.2900	6.0051	4.0196	29.7098
AFDC and Foodstamp	5.7610	12.0333	32.1575	6.2918	13.2497	33.7644
	MSE =	1386.502		MSE =	1332.176	
Followup						
Nonparticipants	16.2616**	17.6948**	32.1711	16.6890**	17.4716**	30.1687
AFDC Only	28.9601*	-26.9880	24.2364	30.4479**	-21.7158	24.5826
Food Stamps Only	17.7484**	37.0075**	26.1788	18.4397**	35.1587**	27.2494
AFDC and Foodstamp	20.3877*	5.9271	25.0868	20.7749*	8.1485	28.1119
	MSE =	1699.21		MSE =	1652.439	
Calcium (mg)						
Initial						
Nonparticipants	43.3045	-74.3739	555.1529	75.9080*	-44.8145	504.2945
AFDC Only	27.8419	-515.2736	603.2557	125.6682	-278.6574	564.9772
Food Stamps Only	31.1249	-64.8163	548.5801	24.4477	-46.5900	570.2882
AFDC and Foodstamp	-82.8705	-143.5773	661.5543	-44.8707	-83.5806	682.0413
	MSE =	310027.7		MSE =	299059.7	
Followup						
Nonparticipants	94.8912**	113.6317*	556.4431	113.0914**	125.5376*	522.0758
AFDC Only	200.1526	-263.5644	508.7278	276.7048	-219.9303	481.2506
Food Stamps Only	172.9136**	281.7735**	450.0224	181.5656**	280.7831**	452.5342
AFDC and Foodstamp	212.0079	103.5661	394.6652	236.9123*	130.6657	425.0861
	MSE =	259206.4		MSE =	251922.1	
Iron (mg)						
Initial						
Nonparticipants	0.6939	-0.4173	2.0369	0.5778	-0.6278	2.1219
AFDC Only	3.7500*	4.2022	1.0869	3.8481*	4.5988	1.0815
Food Stamps Only	0.5515	-0.1214	2.1053	0.5190	-0.3221	2.1512
AFDC and Foodstamp	1.5752	4.4255*	1.8851	1.4988	4.1772*	1.9869
	MSE =	40.43622		MSE =	39.9285	
Followup						
Nonparticipants	3.8414**	4.1030**	2.3017	3.9560**	4.2948**	1.8325
AFDC Only	6.7134*	0.6515	1.0582	7.2467*	1.6015	0.9558
Food Stamps Only	3.5051**	9.1802**	1.2635	3.3391**	8.9315**	1.7519
AFDC and Foodstamp	2.5650	0.5756	3.1882	2.4847	0.8635	4.0250
	MSE =	127.2358		MSE =	126.6187	

(continued)

Table V-B-13 (continued)

Participation Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Folowup						
Nonparticipants	0.3417**	0.3795**	0.3030	0.3556**	0.3957**	0.2539
AFDC Only	0.5780*	-0.1640	0.1815	0.6115*	-0.1014	0.1947
Food Stamps Only	0.3082**	0.8016**	0.2182	0.2923**	0.7798**	0.2659
AFDC and Foodstamp	0.2683	0.0292	0.3315	0.2612	0.0700	0.4155
	MSE =	0.8806056		MSE =	0.8752513	
Riboflavin (mg)						
Initial						
Nonparticipants	0.0809	-0.1161	0.7681	0.1199*	-0.0887	0.7047
AFDC Only	0.2171	-0.6665	0.8425	0.3439	-0.3436	0.7956
Food Stamps Only	0.1547	-0.0326	0.6873	0.1482	-0.0243	0.7150
AFDC and Foodstamp	-0.0151	0.2764	0.9020	0.0244	0.3360	0.9385
	MSE =	0.7996957		MSE =	0.7806787	
Folowup						
Nonparticipants	0.4021**	0.4428**	0.7911	0.4332**	0.4742**	0.7101
AFDC Only	0.7193*	-0.1648	0.6465	0.8466*	-0.0852	0.6201
Food Stamps Only	0.4342**	1.0806**	0.6192	0.4216**	1.0671**	0.6692
AFDC and Foodstamp	0.3848	0.0818	0.7183	0.4046	0.1596	0.8306
	MSE =	1.529011		MSE =	1.503944	
Niacin (mg)						
Initial						
Nonparticipants	0.5852	-0.3755	1.3711	0.6372	-0.4101	1.2736
AFDC Only	2.9359	0.5170	1.0498	3.0344	0.9800	1.0880
Food Stamps Only	1.0880	0.3291	0.8169	1.1366	0.2700	0.8206
AFDC and Foodstamp	1.5935	5.2861**	0.9513	1.5880	5.2610**	1.1004
	MSE =	38.23325		MSE =	38.17872	
Folowup						
Nonparticipants	3.7980**	4.1684**	1.6329	3.9914**	4.4903**	1.0718
AFDC Only	6.2773	-0.7442	0.8664	6.6332	-0.1906	1.0168
Food Stamps Only	3.2816**	8.8444**	0.9495	2.9785*	8.6759**	1.5570
AFDC and Foodstamp	2.3068	0.7963	2.6012	2.0996	1.0931	3.6246
	MSE =	141.0659		MSE =	140.5676	
Vitamin B6 (mg)						
Initial						
Nonparticipants	0.0580	-0.0641	0.3028	0.0582	-0.0772	0.2932
AFDC Only	0.3132	1.8040*	0.2375	0.3308	1.9213*	0.2478
Food Stamps Only	0.1188	0.0069	0.2283	0.1139	-0.0093	0.2404
AFDC and Foodstamp	0.1397	0.4966*	0.2846	0.1327	0.4904*	0.3139
	MSE =	0.4468045		MSE =	0.4417693	
Folowup						
Nonparticipants	0.4098**	0.4351**	0.3149	0.4207**	0.4552**	0.2603
AFDC Only	0.7318*	-0.3239	0.2009	0.7915*	-0.2095	0.1992
Food Stamps Only	0.3624**	0.9775**	0.2123	0.3393**	0.9482**	0.2718
AFDC and Foodstamp	0.2669	-0.0042	0.4052	0.2517	0.0443	0.5149
	MSE =	1.490096		MSE =	1.482238	

(continued)

Table V-B-13 (continued)

Participation Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Magnesium (mg)						
Initial						
Nonparticipants	11.1859*	-5.1811	76.6222	12.0868**	-4.9667	72.8440
AFDC Only	10.9393	135.1793	76.3632	20.4566	170.8428	73.3167
Food Stamps Only	15.3539	7.8403	66.5220	14.2322	7.9192	69.8161
AFDC and Foodstamp	12.5444	9.5675	77.2009	15.0962	16.9032	81.3936
	MSE =	6427.05		MSE =	6131.84	
Followup						
Nonparticipants	22.5856**	27.0753**	77.8017	23.6184**	26.7259**	73.9856
AFDC Only	56.6924*	-85.0072	63.7258	63.5642**	-70.0172	61.8340
Food Stamps Only	31.5021**	56.0503**	63.3171	33.6790**	52.5657**	63.9074
AFDC and Foodstamp	30.3493	14.0628	62.9805	32.2094	17.2133	68.2845
	MSE =	6138.907		MSE =	5946.056	
Phosphorus (mg)						
Initial						
Nonparticipants	48.2923	-54.8078	526.3692	67.5474*	-38.0186	491.6881
AFDC Only	82.0804	-109.5822	514.7406	160.9435	105.9121	482.3784
Food Stamps Only	21.6834	-57.1189	534.2822	14.2550	-51.3225	554.1240
AFDC and Foodstamp	-28.5612	-105.1327	611.2545	-4.5422	-60.1494	630.9688
	MSE =	242891.1		MSE =	234696.5	
Followup						
Nonparticipants	97.6214**	125.2383**	527.9430	109.4533**	129.1536**	502.7934
AFDC Only	220.8933	-223.1084	466.9376	291.5351*	-174.3250	431.9654
Food Stamps Only	181.6833**	296.9399**	417.3043	193.5877**	290.6063**	416.1244
AFDC and Foodstamp	195.1991	118.4188	390.5070	220.3453*	139.9695	409.7109
	MSE =	205559.5		MSE =	199554.9	
Vitamin A (IU)						
Initial						
Nonparticipants	168.1430	-176.7502	1049.2968	209.2075*	-159.8998	977.6733
AFDC Only	838.3130	-858.2863	897.5802	900.8172	-536.9376	914.1469
Food Stamps Only	210.9409	-90.1594	961.5916	205.3294	-109.4541	1001.6471
AFDC and Foodstamp	129.1227	1064.2930*	1201.8042	138.2721	1068.6183*	1274.7776
	MSE =	2986353		MSE =	2971469	
Followup						
Nonparticipants	1042.8695**	1136.0667**	1090.2579	1104.7345**	1208.3042**	922.8496
AFDC Only	1586.2442	66.7468	765.0132	1757.7799*	177.1629	755.4538
Food Stamps Only	967.7687**	2501.5561**	788.4223	907.7985**	2461.3545**	937.2323
AFDC and Foodstamp	849.3236	205.2363	1114.5864	849.7226	352.6699	1365.3992
	MSE =	9378523		MSE =	9311623	
Thiamin (mg)						
Initial						
Nonparticipants	0.0596	-0.0441	0.2920	0.0621*	-0.0511	0.2803
AFDC Only	0.2425	0.3873	0.2628	0.2538	0.4773	0.2693
Food Stamps Only	0.0944	0.0303	0.2393	0.0930	0.0202	0.2499
AFDC and Foodstamp	0.0954	0.4228*	0.2882	0.0950	0.4198*	0.3097
	MSE =	0.2863233		MSE =	0.2833182	

(continued)

Table V-B-13 (continued)

Participation Group	Unadjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Vitamin B12 (mcg)						
Initial						
Nonparticipants	0.2082	-0.2886	1.9042	0.2960*	-0.2374	1.7602
AFDC Only	0.8626	-2.0135	2.0353	1.1648	-1.2352	1.9241
Food Stamps Only	0.4004	-0.1127	1.7205	0.3884	-0.1259	1.7853
AFDC and Foodstamp	-0.0047	1.0958	2.2955	0.0715	1.1849	2.3914
	MSE =	6.213461		MSE =	6.108352	
Followup						
Nonparticipants	1.2717**	1.3493**	1.9747	1.3605**	1.4446**	1.7366
AFDC Only	2.1502	0.2015	1.5412	2.5088*	0.4113	1.4656
Food Stamps Only	1.2907**	3.3741**	1.5085	1.2380**	3.3327**	1.6763
AFDC and Foodstamp	1.0439	0.3239	1.9753	1.0924	0.5569	2.3088
	MSE =	15.51258		MSE =	15.32704	
Vitamin C (mg)						
Initial						
Nonparticipants	10.4792*	4.3567	40.7280	9.1014	1.9377	40.8516
AFDC Only	21.9051	-34.8929	34.6836	13.0541	-32.3891	41.2256
Food Stamps Only	10.3870	15.8253	32.0755	11.1265	13.9264	33.4963
AFDC and Foodstamp	8.1658	47.8549	38.1590	6.7325	45.4382	40.3999
	MSE =	7797.868		MSE =	7632.669	
Followup						
Nonparticipants	35.8480**	40.3999**	37.3691	36.6275**	39.0319**	34.1747
AFDC Only	41.8876	-9.3504	18.6111	34.5292	-15.7727	26.5019
Food Stamps Only	28.9798**	65.6524**	33.9982	29.7594**	61.9432**	36.8990
AFDC and Foodstamp	51.5929*	28.5573	19.8166	51.2349*	32.8975	24.0061
	MSE =	11039.92		MSE =	10887.89	
Number of Subjects						
WIC Status						
Receipt of AFDC and Food Stamps	WIC	WIC/Control	Control	Total		
Nonparticipant	1,448	116	390	1,954		
AFDC	103	1	14	118		
Food Stamps	786	41	108	935		
AFDC & Food Stamps	425	23	21	469		
Total	2,762	181	531	3,476		

* p < 0.05.

** p < 0.01.

*** p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/Control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control group and differences from Control group means for WIC and WIC/Control groups.

^bInitial interviews controlled for duration of gestation at registration. Followup interviews controlled for initial nutrient intake and duration of gestation.^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews adjusted for initial nutrient intake, duration of gestation, and maternal characteristics at registration into study. See Appendix V-A-3 for full covariate list.

Table V-C-1

Covariates Used in Regression Analyses of Maternal Anthropometry

Variable Name	Variable Definition and Units	Mean	Standard Deviation
WICCAT1	WIC at Registration and at Followup = 1, Others = 0	0.815 ^a	
WICCAT2	Control at Registration, WIC at Followup = 1, Others = 0	0.049	
GESTT1	Duration of Gestation at Initial Interview (d)	125.1	41.3
MOMAGE	Mother's Age (y)	22.3	5.0
PARITY	Parity (n)	0.97	1.2
MOMHT	Mother's Height (cm)	161.5	6.8
MOMSMOKE	Cigarettes Smoked/Day by Mother, Initial Interview (n)	4.1	7.2
EBEER1	Beer Ethanol Ingested/Week, Initial Interview (oz)	0.11	0.68
OTHRALC1	Ethanol Other than Beer Ingested/Week, Initial Interview (oz)	0.07	0.62
HRSWORK1	Hours Mother Works/Week, Initial Interview (hr)	4.7	11.6
EXERT1	Physical Work Required at Mother's Work, Initial Interview, Heavy = 1, Moderate = 2, Little = 3	2.9	
HRSFEET1	Mother's Time on Feet at Work, Initial Interview, Most = 1, Part = 2, Little = 3, None = 4	3.6	
PREMIES	Number of Previous Low Birthweight Infants (n)	0.16	0.55
STILBORN	Previous Stillborn Infant = 1, None = 0	0.01	
MINORILL	Minor Illnesses During Current Pregnancy = 1, None = 0	0.11	
MARITAL	Mother Married = 1, vs. Not Married = 0	0.46	
MOMED	Years of Education, Mother (y)	10.8	2.1
CATMOCC1	Mother: Farmworker = 1, vs. Physical Labor, Service, Manufacturing = 0	0.018	
CATMOCC2	Mother: Sales Worker, Skilled Trade Clerical = 1, vs. Physical Labor, Service, Manufacturing = 0	0.237	
CATMOCC3	Mother: Professional Worker = 1, vs. Physical Labor, Service, Manufacturing = 0	0.032	
CATMOCC4	Mother: Has Never Worked = 1, vs. Physical Labor, Service, Manufacturing = 0	0.243	
CATETH1	White Hispanic = 1, vs. White Non-hispanic = 0	0.179	
CATETH2	Black = 1, vs. White, Nonhispanic = 0	0.296	
CATETH3	Other Ethnicity = 1, vs. White, Non-hispanic = 0	0.028	
AFDC	Mother on AFDC = 1, Others = 0	0.168	

(continued)

Table V-C-1 (continued)

Variable Name	Variable Definition and Units	Mean	Standard Deviation
MEDICAID	Mother on Medicaid = 1, Others = 0	0.234	
INCOME	Yearly Income (dollars/100)	73.5	41.0
CATINC4	Income Missing = 1, Not Missing = 0	0.157	
HHSIZE	Household Size (n)	3.9	1.9
FATED	Years of Education, Father (y)	11.1	2.2
CATFATED	Father's Education Missing = 1, Not Missing = 0	0.081	
CATFOCC1	Father: Farm Worker = 1, vs. Physical Labor, Service, Manufacturing = 0	0.050	
CATFOCC2	Father: Sales Worker, Skilled Trade, Clerical = 1, vs. Physical Labor, Service, Manufacturing = 0	0.189	
CATFOCC3	Father: Professional Worker = 1, vs. Physical Labor, Service, Manufacturing = 0	0.042	
CATFOCC4	Father: Never Worked = 1, vs. Physical Labor, Service, Manufacturing = 0	0.164	
CATFEMP1	Father Employed = 1, vs. Unemployed = 0	0.363	
CATFEMP2	Father Retired, In Jail, Deceased = 1, vs. Unemployed = 0	0.149	
CATMEMP1	Mother Employed = 1, vs. housewife, student, disabled = 0	0.160	
CATMEMP2	Mother Unemployed = 1, vs. housewife, student, disabled = 0	0.260	
MOMWTO	Mother's Weight at Conception (kg) ^b	61.2	14.2
MISMOMW	Mother's Weight at Conception Missing = 1, Not Missing = 0	0.018	
MOMWT1	Mother's Weight at Initial Interview (kg) ^c	65.27	14.9
MOMWT2	Mother's Weight at Followup Interview (kg) ^c	72.2	14.7
GESTT2	Duration of Gestation at Followup Interview (d) ^c	236.2	16.2
VOMIT	Number of Days of Severe Vomiting (d) ^c	26.7	47.0
NAUSEA	Number of Days of Severe Nausea (d) ^c	20.3	41.5
T2PICA	Pica Prior to Followup = 1, Others = 0 ^c	0.024	
T2SMOKE	Number of Cigarettes/Day at Followup Interview (n) ^d	4.2	7.6
EBEER2	Beer Ethanol Ingested/Week, Followup Interview (oz) ^d	0.06	0.41
OTHRALC2	Ethanol Other Than Beer Ingested/Week Followup Interview (oz) ^d	0.03	0.31
HRSWORK2	Hours Mother Works/Week at Followup Interview (hr) ^d	2.7	9.2
EXERT2	Physical Work Required at Mother's Work, Followup Interview, Heavy = 1, Moderate = 2, Little = 3 ^d	2.9	

(continued)

Table V-C-1 (continued)

Variable Name	Variable Definition and Units	Mean	Standard Deviation
HRSFEET2	Mother's Time on Feet at Work, Followup Interview, Most = 1, Part = 2, Little = 3, None = 4 ^d	3.8	
NUT101	Energy Intake at Initial Interview (kcal) ^d	1996	790
NUT201	Energy Intake at Followup Interview (kcal) ^d	2002	737
MISNUT	Dietary Interview Missing at Initial and/or Followup Interviews = 1, Not Missing = 0 ^d	0.273	
NOVISIT2	Number of Prenatal Care Visits at Followup Interview (n) ^d	7.0	3.2

^aFor dichotomous variables, mean = proportion of subjects scored 1, i.e., WICCAT1 of 0.815 = 81.5% of women were in the control WIC sample.

^bIncluded only in Regression Models at Initial Interview adjusted for weight at conception.

^cIncluded only in Regression Models for Followup Interview.

^dIncluded only in Regression Models for Followup Interview with possible Mediating Variables.

Table V-C-2

Linear Multiple Regression Analyses of Maternal Weight

Maternal weight (kg) at initial interview, adjusted for duration of gestation at registration

		SSE	986895.7	F RATIO	14.66
		DPE	4488	PROB>F	0.0001
		MSE	219.896549	R-SQUARE	0.0097
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	60.824660	0.844937	71.9872	0.0001
WICCAT1	1	-0.417086	0.617547	-0.6754	0.4995
WICCAT2	1	-1.369040	1.146603	-1.1940	0.2325
GESTT1	1	0.032973	0.005417805	6.0861	0.0001

Maternal weight (kg) at initial interview, adjusted for duration of gestation at registration and weight at conception

		SSE	124764.6	F RATIO	6269.27
		DPE	4486	PROB>F	0.0001
		MSE	27.811997	R-SQUARE	0.8748
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	-0.073668	0.458267	-0.1608	0.8723
WICCAT1	1	-0.682810	0.219735	-3.1074	0.0019
WICCAT2	1	-0.908536	0.407799	-2.2279	0.0259
GESTT1	1	0.046772	0.001928502	24.2531	0.0001
MONVTO	1	-0.980714	0.005578828	-175.7921	0.0001
WISHOWW	1	5.362708	0.587915	9.1216	0.0001

Table V-C-2 (continued)

Maternal weight (kg) at followup interview, adjusted for initial measurement, duration of gestation at both measurements and maternal characteristics at registration into study

		SSE	93116.76	F RATIO	907.22
		DPE	4445	PROB>F	0.0001
		MSE	20.948653	R-SQUARE	0.9037
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	-8.932752	2.300437	-3.8831	0.0001
WICCAT1	1	0.031412	0.197945	0.1587	0.8739
WICCAT2	1	-0.249030	0.357675	-0.6962	0.4863
MONWT1	1	0.824472	0.013144	62.7252	0.0001
GESTT2	1	0.054122	0.004385977	12.3397	0.0001
VOMIT	1	-0.00284538	0.001527274	-1.8630	0.0625
NAUSEA	1	-0.00122782	0.001736192	-0.7072	0.4795
T2PICA	1	-0.670048	0.459033	-1.4597	0.1444
GESTT1	1	-0.040833	0.00185949	-21.9594	0.0001
MONAGE	1	0.007609087	0.020321	0.3744	0.7081
PARITY	1	-0.470699	0.089131	-5.2810	0.0001
MONWTO	1	0.120610	0.013729	8.7848	0.0001
MISMOMW	1	-0.579137	0.520933	-1.1117	0.2663
MONMT	1	-0.076089	0.011159	-6.8184	0.0001
MONSHOKE	1	-0.049604	0.010310	-4.8110	0.0001
EBBER1	1	-0.117576	0.105589	-1.1135	0.2655
OTHRALC1	1	0.017549	0.115773	0.1516	0.8795
HRSWORK1	1	0.002686502	0.013524	0.1987	0.8425
EXERT1	1	0.370502	0.294044	1.2600	0.2077
HRSPEET1	1	0.070863	0.172818	0.4100	0.6818
PRENIES	1	-0.127756	0.138893	-0.9198	0.3577
STILBORN	1	-0.699854	0.557386	-1.2556	0.2093
MINORILL	1	0.092679	0.223920	0.4139	0.6790
MARITAL	1	0.202953	0.174079	1.1659	0.2437
MONED	1	-0.024752	0.041754	-0.5928	0.5533
CATHOCC1	1	-0.239477	0.571234	-0.4192	0.6751
CATHOCC2	1	0.088286	0.178484	0.4946	0.6209
CATHOCC3	1	-0.00277707	0.403152	-0.0069	0.9945
CATHOCC4	1	-0.433679	0.191225	-2.2679	0.0234
CATETH1	1	0.355457	0.221388	1.6056	0.1084
CATETH2	1	-0.481331	0.184396	-2.6103	0.0091
CATETH3	1	-0.106433	0.425414	-0.2502	0.8025
AFDC	1	-0.153492	0.210952	-0.7276	0.4669
MEDICAID	1	0.328725	0.180379	1.8224	0.0685
INCOME	1	0.001011928	0.0018731	0.5402	0.5891
CATINC4	1	0.155151	0.200219	0.7749	0.4384
HESIZE	1	-0.023116	0.041167	-0.5615	0.5745
PATED	1	-0.043806	0.038243	-1.1455	0.2521
CATFED3	1	-0.159148	0.278216	-0.5720	0.5673
CATFOCC1	1	-0.621522	0.346662	-1.7929	0.0731
CATFOCC2	1	-0.120965	0.183955	-0.6576	0.5108
CATFOCC3	1	0.263820	0.353513	0.7463	0.4555
CATFOCC4	1	-0.426958	0.226542	-1.8847	0.0595
CATFEMP1	1	-0.090236	0.156146	-0.5779	0.5634
CATFEMP2	1	0.377228	0.236618	1.5942	0.1110
CATHEMP1	1	0.408496	0.569964	0.7167	0.4736
CATHEMP2	1	0.117251	0.182205	0.6435	0.5199

See Table V-C-1 for specification of covariates

Table V-C-3

Exclusions from analyses of maternal weight, arm circumference and triceps and subscapular skinfold thickness include:

1. Diabetic women.
 2. Women whose pregnancies resulted in multiple births.
 3. Women whose pregnancies resulted in infants with congenital anomalies possibly associated with fetal growth.
 4. Women whose weight at conception was <34 or >160 kilograms.
 5. Women whose height was <136 or >199 centimeters.
 6. Women with the following recorded values for analyses in which the dependent variable is:
 - a. Initial weight <34 or >160 kilograms.
 - b. Followup weight <34 or >182 kilograms.
 - c. Mean initial or followup triceps skinfold <4.0 millimeters.
 - d. Mean initial or followup subscapular skinfold <2.5 millimeters.
-

Table V-C-4.1
Maternal Anthropometry by WIC Status^a and Maternal Age

Maternal age (yrs)	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Weight (kg)						
Initial						
w/o Adjusting for Weight at Conception						
20-29	0.5934	-1.7318	66.0974	0.0171	-1.7083	67.5215
<18	1.8863	-1.7892	58.0924***	1.8519	-1.7017	60.1619***
18-19	1.5160	2.9767	61.0244***	1.4228	2.8156	62.8492***
30+	0.2710	-0.5060	72.0313**	-1.0585	-1.2368	74.3236***
	MSE =	208.6621		MSE =	181.8129	
Adjusting for Weight at Conception						
20-29	-0.8234 **	-1.1283 *	65.9537	-0.8729 **	-0.9694	66.3415
<18	-0.0876	-0.9119	65.0320	-0.0608	-0.8070	65.3800
18-19	0.2126	0.0914	64.8118*	0.1762	0.0943	65.1788*
30+	-2.0280 **	-0.9206	67.3572*	-2.0386 **	-0.7099	67.9945*
	MSE =	27.77365		MSE =	27.33509	
Followup						
20-29	-0.0463	0.3043	72.1136	0.0411	0.1826	72.4390
<18	-0.6793	-1.0216	72.8503	-0.4711	-1.0975	73.3079
18-19	-0.1965	-1.1842	72.6420	0.2418	-1.0135	72.7574
30+	-0.5543	0.3733	71.9552	-0.5234	0.4055	72.4702
	MSE =	22.08422		MSE =	21.10181	
Arm Circumference (cm)						
Initial						
20-29	0.4645	-0.5024	27.3932	-0.0650	-0.5542	27.7139
<18	0.3255	0.9456	25.2770*	-0.3054	1.3147	27.7387
18-19	1.1152	0.8265	25.8785*	0.5293	-0.2288	27.3556
30+	0.3281	0.8508	29.1670	-0.6347	0.4965	28.0922
	MSE =	55.05173		MSE =	41.68374	
Followup						
20-29	0.0857	0.8152	28.2098	-0.0883	0.7084	28.1702
<18	0.3164	-1.6348	26.7481	0.1211	-1.2036	27.6845
18-19	-0.2192	-0.3538	27.4876	-0.2069	-0.6719	27.9119
30+	-0.0775	-0.4951	29.2798	-0.4313	-0.4365	28.5530
	MSE =	47.26312		MSE =	41.1257	
Triceps Skinfold (mm)						
Initial						
20-29	-0.1289	-0.4119	21.0135	-0.3763	-0.1595	20.8694
<18	-1.2282	-1.7559	18.6944	-1.7755	-1.6262	21.4449
18-19	0.1409	1.1082	18.8860*	-0.1197	0.2956	20.2074
30+	-0.5463	0.2266	24.0373**	-1.1749	0.0666	22.0274
	MSE =	74.77104		MSE =	47.74396	
Followup						
20-29	-1.5515 **	-1.0460	23.1235	-1.5392 **	-1.1217 *	23.3118
<18	-1.2794	-0.8595	22.8497	-1.3154	-0.7453	23.4612
18-19	-0.4458	0.8254	21.9874*	-0.2347	0.8919	22.2212*
30+	-1.8406 *	-1.8909	23.6601	-1.8689 *	-2.0889	23.7206
	MSE =	30.50506		MSE =	29.2267	

(continued)

Table V-C-4.1 (continued)

Maternal age (yrs)	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Subscapular Skinfold (mm)						
Initial						
20-29	0.3760	0.6486	17.7686	-0.2976	0.4730	17.7743
<18	-0.2139	-0.9258	15.2674*	-0.9840	-0.5812	18.0035
18-19	-0.4115	1.7205	16.6354	-0.8791	0.6308	17.9388
30+	-0.1636	1.2432	20.5665**	-0.8720	1.0943	18.4594
	MSE =	62.11686		MSE =	35.43359	
Followup						
20-29	-0.7719 **	-0.6892	20.8780	-0.8133 **	-0.5691	21.2361
<18	0.0776	0.6675	20.0117	-0.0882	0.6842	20.8950
18-19	0.0983	0.7445	19.9746	0.1860	0.9552	20.4144
30+	-2.8445 **	-1.7118	22.6294*	-2.9590 **	-1.4818	22.8831*
	MSE =	27.87538		MSE =	26.66942	
WIC Status						
Maternal Age (y)	WIC	WIC/Control	Control	Total		
Weight						
20-29	2,012	115	438	2,565		
<18	572	34	59	665		
18-19	674	53	135	862		
>29	318	19	63	400		
Total	3,576	221	695	4,492		
Arm Circumference						
20-29	2,062	117	452	2,631		
<18	578	34	60	672		
18-19	689	53	141	883		
>29	326	21	66	413		
Total	3,655	225	719	4,599		
Triceps Skinfold						
20-29	2,040	117	449	2,606		
<18	571	34	60	665		
18-19	684	53	142	879		
>29	324	21	66	411		
Total	3,619	225	717	4,561		
Subscapular Skinfold						
20-29	2,013	115	437	2,565		
<18	570	34	60	664		
18-19	680	53	140	873		
>29	316	21	64	401		
Total	3,579	223	701	4,503		

* p < 0.05.

** p < 0.01.

*** p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/Control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control group and differences from Control group means for WIC and WIC/Control groups.

^bInitial interviews controlled for duration of gestation at registration into study. Followup interviews controlled for duration of gestation at both interviews.^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews controlled for duration of gestation at both interviews and maternal characteristics at registration into study. See Appendix V-C-1 for full covariate list.

Table V-C-4.2
Maternal Anthropometry by WIC Status^a and Parity

Parity	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Weight (kg)						
Initial						
	W/O Adjusting for Weight at Conception					
0	0.3589	-0.1781	62.1624***	0.6622	-0.0261	63.6497***
1-2	0.5631	-2.0287	66.2611	0.3040	-2.0131	67.5471
>2	-1.8542	-2.7816	72.6803**	-1.6404	-1.1323	74.4989***
	MSE =	212.3451		MSE =	183.5022	
	Adjusting for Weight at Conception					
0	-0.8670 **	-1.2475 *	65.8048	-0.7727 *	-1.0903	66.0590
1-2	-0.2372	-0.3207	65.4373	-0.3139	-0.1966	65.8312
>2	-2.0305 **	-1.8933	67.3690**	-2.1300 **	-1.7987	68.0692***
	MSE =	27.78422		MSE =	27.35	
Followup						
0	-0.0034	-0.2731	72.7467	0.1208	-0.3750	73.1397
1-2	-0.3249	-0.3789	72.0627	-0.1939	-0.4278	72.4118
>2	0.1319	1.1544	70.7843*	0.2863	1.4260	71.3578
	MSE =	21.787		MSE =	20.9167	
Arm Circumference (cm)						
Initial						
0	0.2045	-0.4138	26.3436	-0.2054	-0.6825	27.7734
1-2	0.5977	0.3671	27.4111	0.1848	0.4250	27.5575
>2	-0.0468	0.2781	29.2110	-0.2588	0.4821	27.7457
	MSE =	55.23149		MSE =	41.6868	
Followup						
0	-0.2286	-0.8108	27.8369	-0.3544	-1.1251	28.3488
1-2	0.2536	-0.5225	27.9786	0.2218	-0.1658	27.8050
>2	-0.8474	6.3628 **	29.3958	-0.5964	6.5954 **	28.4661
	MSE =	47.30979		MSE =	40.92226	
Triceps Skinfold (mm)						
Initial						
0	-0.3996	0.3636	19.3638	-0.6341	0.0162	20.5431
1-2	-0.5192	-1.5135	21.4487	-0.4837	-0.7167	21.0724
>2	-0.9741	0.9396	23.4810	-0.3778	1.0418	21.3860
	MSE =	75.7923		MSE =	47.71591	
Followup						
0	-0.7162 *	-0.0830	22.3307*	-0.6906 *	-0.0213	22.6498
1-2	-1.6556 **	-0.7529	23.3035	-1.6508 **	-0.8846	23.4810
>2	-2.8808 **	-3.8687 **	24.1076	-2.4793 **	-3.6291 *	24.0546
	MSE =	30.44756		MSE =	29.20015	
Subscapular Skinfold (mm)						
Initial						
0	-0.5465	0.6808	16.8281	-0.9774 **	0.3612	18.0433
1-2	0.1886	0.2692	17.8816	-0.1821	0.4500	17.6088
>2	0.0964	0.9192	19.9747	0.0383	0.7902	18.0671
	MSE =	62.89095		MSE =	35.38624	
Followup						
0	0.0826	0.1396	20.1845*	0.0307	0.3189	20.7344
1-2	-1.0880 **	-0.4435	21.1281	-1.1256 **	-0.3052	21.4823
>2	-2.8336 **	-2.2104	22.2070	-2.7075 **	-1.9763	22.4130
	MSE =	27.82564		MSE =	26.63924	

(continued)

Table V-C-4.2 (continued)

Parity	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
WIC Status						
Parity (n)	WIC	WIC/Control	Control	Total		
Weight						
0	1,579	109	321	2,009		
1-2	1,622	94	312	2,028		
>2	375	18	62	455		
Total	3,576	221	695	4,492		
Arm Circumference						
0	1,611	110	333	2,054		
1-2	1,658	96	323	2,077		
>2	386	19	63	468		
Total	3,655	225	719	4,599		
Triceps Skinfold						
0	1,592	110	332	2,034		
1-2	1,643	96	322	2,061		
>2	384	19	63	466		
Total	3,619	225	717	4,561		
Subscapular Skinfold						
0	1,584	109	328	2,021		
1-2	1,615	95	312	2,022		
>2	380	91	61	460		
Total	3,579	223	701	4,503		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/Control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control group and differences from Control group means for WIC and WIC/Control groups.

^bInitial interviews controlled for duration of gestation at registration into study. Followup interviews controlled for duration of gestation at both interviews.^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews controlled for duration of gestation at both interviews and maternal characteristics at registration into study. See Appendix V-C-1 for full covariate list.

Table V-C-4.3

Maternal Anthropometry by WIC Status^a and Previous Low Birthweight

Previous Low Birthweight (<2501G)	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Weight (kg)						
Initial						
W/O Adjusting for Weight at Conception						
Parity=0	0.3762	-0.1256	62.1328	0.8273	0.2877	65.7842
Parity>0/No LBW	-0.1021	-2.8516	67.8656	-0.3742	-2.8390	67.5295
Previous LBW	1.4241	1.0754	64.5407***	0.1979	1.5726	63.9972
	MSE =	213.6415		MSE =	178.8466	
Adjusting for Weight at Conception						
Parity=0	-0.8089*	-1.1824*	65.7326	-0.6872*	-1.0032	66.3530
Parity>0/No LBW	-0.4026	-0.1341	65.7439	-0.5554	-0.0711	65.9270
Previous LBW	-1.3475	-2.9902*	66.1803	-1.3867*	-2.6514*	66.0544
	MSE =	27.78263		MSE =	27.27559	
Followup						
Parity=0	-0.0591	-0.3421	72.8058	0.1005	-0.3982	72.9615
Parity>0/No LBW	-0.1671	0.0194	71.8931	-0.0271	0.0722	72.3525
Previous LBW	-0.3671	-0.5487	71.4449	-0.3558	-0.8841	72.3558
	MSE =	21.80405		MSE =	20.91963	
Arm Circumference (cm)						
Initial						
Parity=0	0.2174	-0.4261	26.3361	-0.1981	-0.6946	27.7301
Parity>0/No LBW	0.3754	0.3078	27.7795**	0.0974	0.6292	27.5076
Previous LBW	1.1132	0.6895	27.2981	0.1291	-0.4896	28.0000
	MSE =	55.37772		MSE =	41.71261	
Followup						
Parity=0	-0.2596	-0.8578	27.8731	-0.3726	-1.1594	28.4585
Parity>0/No LBW	0.0207	0.2321	28.2711	0.1023	0.8653	27.7386
Previous LBW	0.4911	2.5668	27.7527	0.0258	1.4879	28.1558
	MSE =	47.56629		MSE =	41.09364	
Triceps Skinfold (mm)						
Initial						
Parity=0	-0.3699	0.2344	19.3340	-0.5933	-0.0919	20.7742
Parity>0/No LBW	-0.5068	-1.0715	21.8696	-0.2508	0.1279	20.6822
Previous LBW	-0.6903	-0.3677	21.3312***	-1.6328	-2.3104	21.9137
	MSE =	76.04422		MSE =	47.64617	
Followup						
Parity=0	-0.7621*	-0.1112	22.3642	-0.7150*	-0.0532	22.6175
Parity>0/No LBW	-1.8448**	-1.2841*	23.5792**	-1.7442**	-1.2226	23.6660
Previous LBW	-1.5411*	-0.9508	22.5331	-1.7838*	-1.5580	23.2931
	MSE =	30.43591		MSE =	29.23623	
Subscapular Skinfold (mm)						
Initial						
Parity=0	-0.5065	0.6455	16.7847	-0.9537**	0.3059	18.1766
Parity>0/No LBW	0.2852	0.5300	18.2400*	0.0509	1.0361	17.3448
Previous LBW	-0.1452	0.0088	18.2540	-1.2205	-1.6943	18.5633
	MSE =	63.22831		MSE =	35.3526	
Followup						
Parity=0	0.0105	0.1059	20.2510	-0.0251	0.2824	20.6787
Parity>0/No LBW	-1.3832**	-0.7133	21.4097**	-1.3692**	-0.4757	21.7232*
PREVIOUS LBW	-0.8921	-0.6134	20.4170	-1.0843	-0.8133	21.3192
	MSE =	27.8501		MSE =	26.67484	

(continued)

Table V-C-4.3 (continued)

Previous Low Birthweight (<2501 g)	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
WIC Status						
Prior Low Birthweight	WIC	WIC/Control	Control	Total		
Weight						
No prior birth	1,565	108	315	1,988		
No prior LBW	1,588	93	313	1,994		
Prior LBW	423	20	67	510		
Total	3,576	221	695	4,492		
Arm Circumference						
No prior birth	1,596	109	327	2,032		
No prior LBW	1,621	95	322	2,038		
Prior LBW	438	21	70	529		
Total	3,655	225	719	4,599		
Triceps Skinfold						
No prior birth	1,577	109	326	2,012		
No prior LBW	1,611	95	321	2,027		
Prior LBW	431	21	70	522		
Total	3,619	225	717	4,561		
Subscapular Skinfold						
No prior birth	1,569	108	322	1,999		
No prior LBW	1,582	95	311	2,001		
Prior LBW	428	20	68	516		
Total	3,579	223	701	4,503		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/Control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control group and differences from Control group means for WIC and WIC/Control groups.

^bInitial interviews controlled for duration of gestation at registration into study. Followup interviews controlled for duration of gestation at both interviews.^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews controlled for duration of gestation at both interviews and maternal characteristics at registration into study. See Appendix V-C-1 for full covariate list.

Table V-C-4.4

Maternal Anthropometry by WIC Status^a and Weight at Conception

Weight (kg) @ Conception	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Weight (kg)						
Initial						
W/O Adjusting for Weight at Conception						
<50.35	-0.0428	-0.4092	50.5257***	-0.1105	0.3253	52.2276***
50.35-63.49	-1.1381*	-0.7425	61.8230	-1.2468 *	-0.9046	62.4163
>63.50	-0.9341	-2.3971	81.4386***	-0.9433	-2.1537	80.7625***
	MSE =	87.92198		MSE =	83.93872	
Adjusting for Weight at Conception						
<50.35	0.1147	0.1153	64.2430**	0.0908	0.4483	64.8163*
50.35-63.49	-0.8898**	-1.0911	65.7054	-0.9018**	-1.0466	66.0180
>63.50	-1.0800**	-1.4886*	67.0333	-1.1070**	-1.3302	67.2508
	MSE =	27.66677		MSE =	27.17625	
Followup						
<50.35	0.0074	0.3904	70.9016**	0.3661	0.4045	71.6104*
50.35-63.49	-0.4969	-0.3759	72.2863	-0.3083	-0.4597	72.7255
>63.50	-0.0858	-0.4962	73.3212*	0.1722	-0.5199	73.0760
	MSE =	21.83467		MSE =	20.8888	
Arm Circumference (cm)						
Initial						
<50.35	0.3842	-0.0446	23.0785***	0.2041	-0.1588	23.2833***
50.35-63.49	0.0427	0.6763	26.1515	-0.1450	0.5002	26.5917
>63.50	-0.0716	-1.0523	31.7131***	-0.3061	-1.3589	32.2142***
	MSE =	46.1653		MSE =	45.3505	
Followup						
<50.35	-0.0057	-0.8899	25.1261***	0.1825	-1.0664	24.7811***
50.35-63.49	-0.4558	-0.7352	27.4743	-0.4080	-0.8049	27.4631
>63.50	-0.0720	1.6344	31.1245***	-0.0035	1.6950	31.1243***
	MSE =	43.16353		MSE =	42.77557	
Triceps Skinfold (mm)						
Initial						
<50.35	-1.3723*	-1.3235	15.6282	-0.9308	-1.5240	15.0368
50.35-63.49	-1.1307*	0.2053	19.3832	-0.7250	0.2305	19.2717
>63.50	-0.2697	-0.5890	26.7382***	0.0920	-0.4036	26.7317***
	MSE =	56.02218		MSE =	53.60605	
Followup						
<50.35	-1.6252**	-1.5782	22.0610	-1.4137**	-1.7037*	21.9227
50.35-63.49	-1.3236**	-0.4016	22.5355	-1.0653**	-0.4468	22.5786
>63.50	-1.5102**	-0.5675	24.2825***	-1.3049**	-0.4817	24.5680
	MSE =	29.92748		MSE =	29.38063	
Subscapular Skinfold (mm)						
Initial						
<50.35	-0.8587	-0.6672	12.9182***	-0.6651	-0.9136	12.2789***
50.35-63.49	-0.8081	1.2649	16.3404	-0.7750	1.1247	16.3141
>63.50	0.1284	0.4928	23.3470***	0.2068	0.1857	23.4026***
	MSE =	45.21109		MSE =	43.16821	
Followup						
<50.35	-0.2383	0.9265	19.0599*	-0.1576	0.7887	19.2020*
50.35-63.49	-0.4719	0.2190	20.2205	-0.3163	0.3412	20.4622
>63.50	-1.8080**	-2.0390**	23.0644***	-1.7124**	-1.8260*	23.5204***
	MSE =	27.17674		MSE =	26.82502	

(continued)

Table V-C-4.4

Weight (kg) @ Conception	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
WIC Status						
Weight (kg) at Conception	WIC	WIC/Control	Control	Total		
Weight						
<50.35	720	52	171	943		
50.35-63.50	1,650	104	312	2,066		
>63.50	<u>1,206</u>	<u>65</u>	<u>212</u>	<u>1,483</u>		
Total	3,576	221	695	4,492		
Arm Circumference						
<50.35	736	53	173	962		
50.35-63.50	1,688	105	328	2,121		
>63.50	<u>1,231</u>	<u>67</u>	<u>218</u>	<u>1,516</u>		
Total	3,655	225	719	4,599		
Triceps Skinfold						
<50.35	726	53	174	953		
50.35-63.50	1,673	105	326	2,104		
>63.50	<u>1,220</u>	<u>67</u>	<u>217</u>	<u>1,504</u>		
Total	3,619	225	717	4,561		
Subscapular Skinfold						
<50.35	724	53	173	950		
50.35-63.50	1,661	105	317	2,083		
>63.50	<u>1,194</u>	<u>65</u>	<u>211</u>	<u>1,470</u>		
Total	3,579	223	701	4,503		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/Control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control group and differences from Control group means for WIC and WIC/Control groups.

^bInitial interviews controlled for duration of gestation at registration into study. Followup interviews controlled for duration of gestation at both interviews.^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews controlled for duration of gestation at both interviews and maternal characteristics at registration into study. See Appendix V-C-1 for full covariate list.

Table V-C-4.5

Maternal Anthropometry by WIC Status^a and Maternal Height

Maternal Height (cm)	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Weight (kg)						
Initial						
W/O Adjusting for Weight at Conception						
<157.4	-0.0006	-2.2517	59.2324***	-0.4169	-2.7954	61.0859***
157.4-162.6	1.4875	0.1052	62.6017**	1.3105	0.4148	64.0358***
162.7-167.5	1.4108	0.8033	66.8049	0.5945	-0.2256	69.0009
>167.6	-1.0271	-2.1809	73.1142***	-1.3149	-1.2192	74.1978***
	MSE =	198.8151		MSE =	181.5113	
Adjusting for Weight at Conception						
<157.4	-0.4529	-0.3595	64.7153**	-0.4146	-0.3133	65.1057**
157.4-162.6	-0.4749	-1.8259**	65.5837	-0.5343	-1.6357*	65.9427
162.7-167.5	-1.1249*	-0.5650	66.4650	-1.2049*	-0.5273	66.8505
>167.6	-0.6562	-0.0540	66.5359	-0.7827	0.0181	66.8956
	MSE =	27.51743		MSE =	27.29765	
Followup						
<157.4	-0.2287	-0.5841	71.8661	-0.1175	-0.6111	72.1666
157.4-162.6	-0.0329	-0.3683	71.8367	0.2108	-0.6381	72.1662
162.7-167.5	0.0469	0.4168	72.4438	0.0501	0.2823	72.9113
>167.6	-0.4866	0.2648	73.2483	-0.3304	0.4281	73.5743
	MSE =	21.92587		MSE =	20.98875	
Arm Circumference (cm)						
Initial						
<157.4	0.6693	-1.3052	26.7236	0.4133	-0.8555	28.5871
157.4-162.6	0.5278	0.2998	26.5617	-0.1309	-0.3256	27.7160
162.7-167.5	0.6051	0.1800	26.9957	-0.3001	-0.5062	27.2864
>167.6	-0.2347	0.8557	28.4110	-0.1596	1.4636	26.8905
	MSE =	55.79592		MSE =	41.72765	
Followup						
<157.4	0.0713	-0.6830	27.5205	0.3434	-0.5644	28.3433
157.4-162.6	0.1653	0.3692	27.6691	0.0207	0.0561	28.0247
162.7-167.5	0.0706	1.9668	28.4358	-0.4143	1.5786	28.3915
>167.6	-0.6542	-1.4045	28.8712	-0.6190	-0.6109	27.6439
	MSE =	47.54096		MSE =	41.13131	
Triceps Skinfold (mm)						
Initial						
<157.4	-0.9277	-2.1819	20.4639	-0.8319	-1.5159	22.5822**
157.4-162.6	-0.1213	0.7718	20.0657	-0.4532	0.1930	21.0108
162.7-167.5	0.2138	1.2879	20.6310	-0.4669	0.8164	20.3554
>167.6	-0.9953	-1.4460	21.9561	-0.5316	-0.0639	19.1805
	MSE =	76.94878		MSE =	47.71698	
Followup						
<157.4	-2.1940**	-1.0934	23.6762	-2.1355**	-1.1915	24.1681
157.4-162.6	-1.1576**	-2.0378**	22.8404	-1.0264**	-2.1076**	23.1029
162.7-167.5	-1.5835**	0.3944	22.6610	-1.6557**	0.3701	22.8504
>167.6	-0.4480	0.7359	22.5369	-0.4456	0.9518	22.3866
	MSE =	30.3871		MSE =	29.10499	

(continued)

Table V-C-4.5 (continued)

Maternal Height (cm)	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Subscapular Skinfold (mm)						
Initial						
<157.4	-0.3184	-1.5568	17.6866	-0.7281	-1.1386	19.9794***
157.4-162.6	0.2779	1.3566	17.0538	-0.3464	0.5536	18.0371
162.7-167.5	0.4676	1.6986	17.0863	-0.5539	0.9696	16.9850
>167.6	-0.9662	0.7283	18.8271	-0.7003	1.6696	16.0579
	MSE =	64.10909		MSE =	35.52913	
Followup						
<157.4	-0.8023	0.1375	20.8889	-0.8286	0.1435	21.7453
157.4-162.6	-0.9728**	-0.8704	20.8348	-0.9392**	-0.8319	21.3101
162.7-167.5	-0.4329	-0.4866	20.4136	-0.5195	-0.2867	20.6279
>167.6	-0.4107	-0.0754	20.9099	-0.4767	0.4231	20.8041
	MSE =	27.90312		MSE =	26.68686	
WIC Status						
Maternal Height (cm)	WIC	WIC/Control	Control	Total		
Weight						
<157.5	885	65	151	1,101		
157.5-162.5	1,229	74	261	1,564		
162.6-167.5	746	35	135	916		
>167.6	716	47	148	911		
Total	3,576	221	695	4,492		
Arm Circumference						
<157.5	910	65	156	1,131		
157.5-162.5	1,255	76	272	1,603		
162.6-167.5	759	36	143	938		
>167.6	731	48	151	930		
Total	3,655	225	722	4,602		
Triceps Skinfold						
<157.5	897	65	155	1,117		
157.5-162.5	1,246	76	272	1,594		
162.6-167.5	751	36	140	927		
>167.6	725	48	150	923		
Total	3,619	225	717	4,561		
Subscapular Skinfold						
<157.5	889	64	152	1,105		
157.5-162.5	1,235	76	267	1,578		
162.6-167.5	740	35	136	911		
>167.6	715	48	146	909		
Total	3,579	223	701	4,503		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/Control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control group and differences from Control group means for WIC and WIC/Control groups.

^bInitial interviews controlled for duration of gestation at registration into study. Followup interviews controlled for duration of gestation at both interviews.^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews controlled for duration of gestation at both interviews and maternal characteristics at registration into study. See Appendix V-C-1 for full covariate list.

Table V-C-4.6

Maternal Anthropometry by WIC Status^a and Quetelet's Index at Conception

Quetelet's Index at Conception (kg*100)/cm	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Weight (kg)						
Initial						
W/o Adjusting for Weight at Conception						
<0.19	-0.8891	-1.9042	54.7673***	-1.0993	-1.0652	55.8309***
0.19-0.27	-0.2342	0.0945	62.2727	-0.4392	0.3925	63.1322
>0.27	-1.3823	-6.0357**	87.8682***	-1.5888	-4.7220*	87.6878***
	MSE =	108.4826		MSE =	102.5193	
Adjusting for Weight at Conception						
<0.19	-0.4470	-2.0952*	65.9226	-0.5318	-1.9081*	66.1955
0.19-0.27	-0.4882	-0.2296	65.5789	-0.5404*	-0.1308	65.9522
>0.27	-1.6493**	-2.1264*	66.4346	-1.6867**	-1.8168	66.9524
	MSE =	27.7888		MSE =	27.4979	
Followup						
<0.19	-0.1914	0.1255	71.7226	0.0100	-0.0383	72.6699
0.19-0.27	-0.3489	0.0206	72.4071	-0.1671	0.0380	72.8146
>0.27	0.3786	-1.3555	72.3466	0.4461	-1.4576	71.8929
	MSE =	22.05324		MSE =	21.15042	
Arm Circumference (cm)						
Initial						
<0.19	-0.0918	-0.2548	23.8098***	-0.2521	-0.1331	24.3400***
0.19-0.27	0.2630	0.6565	26.3239	0.1526	0.5159	26.7174
>0.27	-0.1910	-2.4210	33.9999***	-0.4771	-2.7052*	34.2074***
	MSE =	45.79892		MSE =	45.26983	
Followup						
<0.19	-0.2998	-1.4115	25.9223*	-0.2531	-1.4716	25.9707*
0.19-0.27	-0.1127	0.6572	27.4764	-0.0395	0.6478	27.4445
>0.27	-0.3729	-1.4108	32.5922***	-0.2702	-1.2048	32.3232***
	MSE =	43.98853		MSE =	43.73235	
Triceps Skinfold (mm)						
Initial						
<0.19	-1.9989**	-1.3369	16.7037***	-1.8105*	-1.0492	16.8508***
0.19-0.27	-0.7272	0.3416	19.7424	-0.3937	0.4461	19.6515
>0.27	-0.0574	-2.3386	29.2121***	0.2631	-1.9899	28.7282***
	MSE =	57.44512		MSE =	55.94385	
Followup						
<0.19	-1.2419*	-1.3033	21.5779*	-1.2164*	-1.3607	21.8110*
0.19-0.27	-1.4885**	0.0520	22.9178	-1.2927**	0.0797	23.0109
>0.27	-1.4904**	-3.1709**	24.6913**	-1.2191*	-3.1189**	24.7841**
	MSE =	29.91235		MSE =	29.5224	
Subscapular Skinfold (mm)						
Initial						
<0.19	-1.5080*	-0.3871	13.9103***	-1.5309*	-0.2182	14.0428***
0.19-0.27	-0.4332	1.1350	16.5411	-0.3662	0.9864	16.3953
>0.27	0.4013	-0.7963	26.4127***	0.5221	-0.9237	25.7976***
	MSE =	43.78268		MSE =	42.99129	
Followup						
<0.19	0.5888	1.5467	18.3852***	0.6059	1.5711	18.7878***
0.19-0.27	-0.9301**	0.1374	20.8210	-0.7905**	0.2592	21.1025
>0.27	-1.9366**	-4.2384**	23.5875***	-1.8330**	-4.0618**	23.9263***
	MSE =	27.24109		MSE =	26.96865	

(continued)

Table V-C-4.6 (continued)

Quetelet's Index at Conception (kg × 100)/cm	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Quetelet's Index at Conception (kg × 100/cm ²)	WIC Status					
	WIC	WIC/Control	Control	Total		
Weight						
<0.19	598	43	134	775		
0.19-0.27	2,299	141	447	2,887		
>0.27	679	37	114	830		
Total	3,576	221	695	4,492		
Arm Circumference						
<0.19	617	43	138	798		
0.19-0.27	2,342	145	463	2,950		
>0.27	696	37	118	857		
Total	3,655	225	719	4,599		
Triceps Skinfold						
<0.19	609	43	139	791		
0.19-0.27	2,321	145	461	2,927		
>0.27	689	37	117	843		
Total	3,619	225	717	4,561		
Subscapular Skinfold						
<0.19	606	43	136	785		
0.19-0.27	2,305	144	453	2,902		
>0.27	668	36	112	816		
Total	3,579	223	701	4,503		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/Control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control group and differences from Control group means for WIC and WIC/Control groups.

^bInitial interviews controlled for duration of gestation at registration into study. Followup interviews controlled for duration of gestation at both interviews.^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews controlled for duration of gestation at both interviews and maternal characteristics at registration into study. See Appendix V-C-1 for full covariate list.

Table V-C-4.7

Maternal Anthropometry by WIC Status^a and Cigarette Smoking

Cigarettes per Day	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Weight (kg)						
Initial	W/o Adjusting for Weight at Conception					
0	1.1329	-1.8206	64.7210	0.7495	-1.4287	66.6768
1-5	-3.5966	-1.7448	68.2660	-1.1209	1.3382	67.4095
6-14	-0.7275	-2.7607	63.1792	-1.6061	-1.0346	65.1774
15+	0.9142	1.9398	65.6384	0.3348	-0.4834	66.1199
	MSE =	218.6476		MSE =	177.7947	
	Adjusting for Weight at Conception					
0	-0.7036*	-0.8290	65.6490	-0.7546**	-0.7077	66.1141
1-5	-1.3074	-1.3132	66.2193	-1.1599	-0.8433	66.3327
6-14	-0.8229	-2.1377	66.1207	-0.9703	-2.0519	66.3992
15+	0.1680	0.1516	65.6856	0.1377	-0.1050	65.7885
	MSE =	27.77933		MSE =	27.29116	
Followup						
0	-0.0362	-0.7073	72.4297	0.1346	-0.6746	72.7857
1-5	-1.0730	1.6470	72.7565	-0.6812	1.5237	72.8308
6-14	-0.2448	0.2482	71.8584	-0.0897	-0.1954	72.2229
15+	-0.3692	0.6323	71.7013	-0.1284	0.6984	71.9185
	MSE =	21.96954		MSE =	20.93263	
Arm Circumference (cm)						
Initial						
0	0.7697*	-0.0120	26.9702	0.1280	-0.0363	27.6018
1-5	-0.1107	-0.7815	27.6636	0.2686	-0.5459	27.6690
6-14	-0.5423	-0.8232	27.0613	-0.7066	-0.5369	28.1580
15+	0.0446	0.9507	27.1557	-0.1794	0.7098	27.3526
	MSE =	55.92489		MSE =	41.71581	
Followup						
0	0.0514	0.0013	28.1396	-0.0776	0.0972	28.1493
1-5	-0.3732	0.5233	28.1732	0.1951	0.7993	27.8376
6-14	-0.5026	-1.3305	27.9234	-0.5709	-1.3174	28.5039
15+	0.0328	-0.5317	27.6623	0.0248	-0.3905	27.4793
	MSE =	47.65471		MSE =	41.16636	
Triceps Skinfold (mm)						
Initial						
0	-0.0228	-0.3841	20.7162	-0.3497	-0.0484	20.8282
1-5	-1.2137	1.8391	21.0570	-0.2356	2.4804	20.6473
6-14	-1.5360	-1.6666	20.3946	-1.2996	-1.2305	21.5945
15+	-0.8653	-2.4418	20.4697	-0.7207	-2.2118	20.2165
	MSE =	76.92546		MSE =	47.62138	
Followup						
0	-1.8038**	-1.5529**	23.6183	-1.7518**	-1.5204**	23.8407
1-5	-1.3372	1.6740	22.6507	-0.9827	2.1177	22.7717
6-14	-1.1619*	-1.3288	21.9845**	-1.1125*	-1.5083	22.4198*
15+	0.2444	1.1361	21.2038***	0.3260	1.1644	21.2436***
	MSE =	30.2836		MSE =	29.13775	
Subscapular Skinfold (mm)						
Initial						
0	0.5723	0.2821	17.4571	-0.1219	0.3132	17.5943
1-5	-1.8439	0.4885	19.1448	-1.0881	0.7982	18.6006
6-14	-1.3918	0.2326	16.8913	-1.5807*	0.6148	18.4289
15+	-0.7933	1.4810	17.8321	-0.8719	1.4143	17.9431
	MSE =	63.60142		MSE =	35.34569	

(continued)

Table V-C-4.7 (continued)

Cigarettes per Day	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
0	-1.1999**	-0.8127	21.4567	-1.1974**	-0.5943	21.8484
1-5	-0.1521	0.6827	20.0528	0.1138	1.0564	20.3350
6-14	-0.5050	-0.8148	20.1050	-0.5272	-0.8038	20.6389
15+	0.6045	0.8274	19.1029	0.5279	1.0637	19.4566
	MSE =	27.77213		MSE =	26.66655	
WIC Status						
Cigarettes per day	WIC	WIC/control	Control	Total		
Weight						
0	2,330	154	426	2,910		
1-5	319	22	63	404		
6-14	508	20	108	636		
>15	419	25	98	542		
Total	3,576	221	695	4,492		
Arm Circumference						
0	2,391	156	438	2,985		
1-5	323	24	63	410		
6-14	519	20	115	654		
>15	422	25	103	550		
Total	3,655	225	719	4,599		
Triceps Skinfold						
0	2,371	156	437	2,964		
1-5	317	24	63	404		
6-14	513	20	114	647		
>15	418	25	103	546		
Total	3,619	225	717	4,561		
Subscapular Skinfold						
0	1,342	155	429	1,926		
1-5	315	24	61	400		
6-14	508	19	110	637		
>15	414	25	101	540		
Total	2,579	223	701	3,503		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control group and differences from Control group means for WIC and WIC/control groups.

^bInitial interviews controlled for duration of gestation at registration into study. Followup interviews controlled for duration of gestation at both interviews.^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews controlled for duration of gestation at both interviews and maternal characteristics at registration into study. See Appendix V-C-1 for full covariate list.

Table V-C-4.8

Maternal Anthropometry by WIC Status^a and Alcohol Consumption

OZ Ethanol per Week	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Weight (kg)						
Initial						
W/o Adjusting for Weight at Conception						
0	0.5882	-1.6572	64.7222	0.3890	-1.1409	66.2856
<2	-1.9747	0.8758	67.6745	-2.0412	-1.2487	67.1064
2+	0.4003	3.2295	65.4094	-1.2813	3.8275	66.2888
	MSE =	219.9763		MSE =	178.6812	
Adjusting for Weight at Conception						
0	-0.6117**	-0.9942*	65.7088	-0.6521**	-0.8680*	66.0991
<2	-1.3281	-0.3376	66.4809	-1.3674	-0.3072	66.4612
2+	-1.3217	0.7234	66.3454	-1.3272	1.0788	66.2603
	MSE =	27.82831		MSE =	27.28586	
Followup						
0	-0.1483	-0.2325	72.2734	-0.0052	-0.2994	72.6022
<2	-0.1464	0.3975	72.1253	0.2846	0.2844	72.4314
2+	-0.9142	0.3470	72.3053	-0.5804	0.2454	72.8956
	MSE =	22.12775		MSE =	20.98003	
Arm Circumference (cm)						
Initial						
0	0.4315	-0.1984	27.0637	-0.0244	-0.1706	27.6455
<2	-0.4224	0.2989	27.4118	-0.6667	-0.0886	27.8826
2+	1.5560	3.2628	26.7167	0.7586	2.1998	27.5432
	MSE =	56.00764		MSE =	41.9377	
Followup						
0	-0.0147	-0.0885	28.0435	-0.0825	-0.0099	28.0864
<2	-0.4830	-0.8549	28.4796	-0.6198	-1.2043	28.5786
2+	-0.5336	1.0906	27.2635	-0.5962	0.8341	27.5893
	MSE =	47.66903		MSE =	41.13117	
Triceps Skinfold (mm)						
Initial						
0	-0.4951	-0.8673	20.8240	-0.6447*	-0.5450	21.0260
<2	-0.2567	3.0953	19.7681	0.0240	2.7330	19.8350
2+	0.4337	4.2661	18.1828	0.3016	3.5490	18.8143
	MSE =	77.15572		MSE =	47.58557	
Followup						
0	-1.3265**	-0.7562	22.9724	-1.2985**	-0.7817	23.1619
<2	-1.8710*	-3.4443	23.3256	-1.5247	-3.1174	23.6534
2+	-1.2092	5.0655*	21.1928	-1.0336	4.8491*	21.7517
	MSE =	30.41277		MSE =	29.17639	
Subscapular Skinfold (mm)						
Initial						
0	-0.0906	0.2170	17.5927	-0.5922*	0.2200	17.9274
<2	-0.2570	3.5537	17.7645	-0.2180	3.2012	17.7345
2+	0.5123	2.6271	16.6347	-0.1583	1.3892	17.2087
	MSE =	64.21231		MSE =	35.37049	
Followup						
0	-0.6185**	-0.2792	20.7890	-0.6663**	-0.1481	21.1686
<2	-1.8281*	-1.8625	20.7388	-1.5394	-1.2252	21.1784
2+	-1.5305	1.0495	20.6734	-1.1310	1.1640	21.2045
	MSE =	27.84652		MSE =	26.69357	

(continued)

Table V-C-4.8 (continued)

OZ Ethanol per Week	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
WIC Status						
OZ Ethanol per Week	WIC	WIC/control	Control	Total		
Weight						
0	3,269	201	625	4,095		
1-2	205	13	43	261		
>2	102	7	27	136		
Total	3,576	221	695	4,492		
Arm Circumference						
0	3,340	205	648	4,193		
1-2	211	13	43	267		
>2	104	7	28	139		
Total	3,655	225	719	4,599		
Triceps Skinfold						
0	3,308	205	646	4,159		
1-2	210	13	43	266		
>2	101	7	28	136		
Total	3,619	225	717	4,561		
Subscapular Skinfold						
0	3,278	203	632	4,113		
1-2	207	13	42	262		
>2	99	7	27	133		
Total	3,584	223	701	4,508		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control group and differences from Control group means for WIC and WIC/control groups.

^bInitial interviews controlled for duration of gestation at registration into study. Followup interviews controlled for duration of gestation at both interviews.^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews controlled for duration of gestation at both interviews and maternal characteristics at registration into study. See Appendix V-C-1 for full covariate list.

Table V-C-4.9
Maternal Anthropometry by WIC Status^a and Ethnicity

Ethnic Group	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Weight (kg)						
Initial						
W/o Adjusting for Weight at Conception						
White Nonhispanic	0.8164	-2.1677	64.8090	0.2337	-1.9534	65.9966
White Hispanic	0.8083	2.4938	62.9245	1.1389	1.5673	66.4541
Black	-1.9115	-3.8712	68.1198*	-0.6738	-2.7708	68.0516
Other	-1.7882	-5.1311	61.3591	-1.0578	-0.1490	62.5177
	MSE =	218.3749		MSE =	178.8196	
Adjusting for Weight at Conception						
White Nonhispanic	-0.4024	-0.3215	65.7243	-0.4402	-0.3929	65.9178
White Hispanic	-0.5859	-0.1717	64.9625	-0.3462	-0.0381	65.5609
Black	-1.5508**	-2.1227*	66.6999	-1.6346**	-2.0677*	66.7162
Other	-1.7574	-3.5537	66.4779	-1.6849	-2.9837	66.6167
	MSE =	27.71056		MSE =	27.26826	
Followup						
White Nonhispanic	-0.1356	0.1163	72.3623	-0.0375	0.1833	72.5456
White Hispanic	0.3630	-0.3085	72.0660	0.5570	-0.5101	72.5203
Black	-0.5098	-0.5982	72.2211	-0.2729	-0.8127	72.3111
Other	-0.0449	1.2480	72.1891	-0.0619	1.3151	72.5301
	MSE =	22.0842		MSE =	20.94894	
Arm Circumference (cm)						
Initial						
White Nonhispanic	0.2937	-0.4359	27.0163	-0.1807	0.0374	27.7616
White Hispanic	1.0424	0.0625	27.0801	0.2960	-0.7511	27.4880
Black	0.0942	0.4390	27.5045	0.0176	0.7080	27.6651
Other	-0.0307	-0.5388	25.5326	0.1329	-0.2554	26.9286
	MSE =	55.89378		MSE =	41.70782	
Followup						
White Nonhispanic	0.0450	-0.6687	28.0424	-0.1797	-0.2458	28.0952
White Hispanic	-0.0280	1.0716	28.2667	0.0637	0.5633	28.2348
Black	-0.1337	-0.5825	27.8561	-0.0591	-0.3157	27.4446
Other	0.1331	-0.5706	27.7104	0.4746	-0.3861	27.6226
	MSE =	47.66688		MSE =	41.14074	
Triceps Skinfold (mm)						
Initial						
White Nonhispanic	0.3442	-0.6967	20.2844	0.0414	0.3003	20.4071
White Hispanic	-0.0209	0.2861	20.8740	-0.5275	-0.8092	20.9997
Black	-2.2210**	-1.8443	21.5985	-1.4394*	-1.1468	20.3192
Other	-0.7635	1.0186	20.0270	-0.0855	1.1883	20.7647
	MSE =	76.99043		MSE =	47.29386	
Followup						
White Nonhispanic	-0.7058*	-0.4325	22.6087	-0.7348*	-0.2007	22.6210
White Hispanic	-1.8062**	-1.1965	23.9232*	-1.7776**	-1.4958	23.8948*
Black	-1.9947**	-1.3846	22.8365	-1.9359**	-1.4686	22.6168
Other	-1.3216	0.1880	22.6865	-1.1506	0.3417	22.6781
	MSE =	30.28561		MSE =	29.15553	
Subscapular Skinfold (mm)						
Initial						
White Nonhispanic	-0.5416	1.4222	17.4878	-1.1006**	2.1654**	18.1198
White Hispanic	0.8724	0.6997	17.8919	0.1123	-0.4708	18.2064
Black	-0.1871	-1.3765	17.9476	0.3930	-0.5437	17.3315
Other	1.7779	0.1119	14.9445	2.2902	0.1416	16.1658
	MSE =	63.82069		MSE =	34.96252	

(continued)

Table V-C-4.9 (continued)

Ethnic Group	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
White Nonhispanic	-0.1445	0.1006	20.4959	-0.3783	0.4720	20.8595
White Hispanic	-1.3639**	-0.6454	21.4822	-1.3564**	-0.7702	21.7797
Black	-1.2800**	-1.8385*	20.9125	-1.0192*	-1.6186	20.8294
Other	-0.8636	2.7424	20.5396	-0.3994	2.9333	20.5398
	MSE =	27.81059		MSE =	26.67624	
WIC Status						
Ethnic Group	WIC	WIC/control	Control	Total		
Weight						
White Nonhispanic	1,777	85	389	2,251		
White Hispanic	582	70	146	798		
Black	1,126	54	135	1,315		
Other	91	12	25	128		
Total	3,576	221	695	4,492		
Arm Circumference						
White Nonhispanic	1,802	88	402	2,292		
White Hispanic	601	70	147	818		
Black	1,159	55	148	1,356		
Other	93	12	28	133		
Total	3,655	225	719	4,599		
Triceps Skinfold						
White Nonhispanic	1,785	88	401	2,274		
White Hispanic	596	70	146	812		
Black	1,145	55	142	1,342		
Other	93	12	28	133		
Total	3,619	225	717	4,561		
Subscapular Skinfold						
White Nonhispanic	1,773	88	390	2,251		
White Hispanic	586	70	143	799		
Black	1,127	53	140	1,320		
Other	93	12	28	133		
Total	3,579	223	701	4,503		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control group and differences from Control group means for WIC and WIC/control groups.

^bInitial interviews controlled for duration of gestation at registration into study. Followup interviews controlled for duration of gestation at both interviews.^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews controlled for duration of gestation at both interviews and maternal characteristics at registration into study. See Appendix V-C-1 for full covariate list.

Table V-C-4.10

Maternal Anthropometry by WIC Status^a and Marital Status

Marital Status	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Weight (kg)						
Initial						
W/o Adjusting for Weight at Conception						
Not Married	-0.1449	-1.5218	64.7076	-0.0919	-0.8526	66.3329
Married	1.1665	-1.1874	65.1162	0.4527	-1.1290	66.4212
	MSE = 219.4461			MSE = 178.7776		
Adjusting for Weight at Conception						
Not Married	-0.9588**	-1.4069*	66.1662	-0.8963**	-1.2071*	66.3805
Married	-0.5045	-0.5007	65.4730	-0.5554	-0.3787	65.8900
	MSE = 27.80052			MSE = 27.28291		
Followup						
Not Married	-0.0854	0.1972	72.0729	0.2146	0.1315	72.3239
Married	-0.1960	-0.4944	72.4206	-0.1183	-0.5775	72.8269
	MSE = 22.10972			MSE = 20.95241		
Arm Circumference (cm)						
Initial						
Not Married	0.4468	0.2819	26.6816	0.0695	0.3523	27.4242
Married	0.5381	-0.3150	27.3805	-0.1272	-0.5106	27.9391
	MSE = 55.87214			MSE = 41.68834		
Followup						
Not Married	0.0632	-0.6043	27.7465	0.0201	-0.5360	27.9130
Married	-0.0660	0.4308	28.2716	-0.1714	0.4045	28.2464
	MSE = 47.60992			MSE = 41.09818		
Triceps Skinfold (mm)						
Initial						
Not Married	-0.8538	-0.9808	20.4474	-0.6164	-0.7483	21.0306
Married	0.1697	0.0669	20.8305	-0.2006	0.2098	20.5550
	MSE = 76.85302			MSE = 47.29377		
Followup						
Not Married	-1.0376**	0.5732	22.2855	-0.9336**	0.5064	22.7223
Married	-1.4421**	-1.8151**	23.4371	-1.4223**	-1.8583**	23.4498
	MSE = 30.33447			MSE = 29.12059		
Subscapular Skinfold (mm)						
Initial						
Not Married	0.4425	0.9482	16.7540	0.2664	1.0895	17.2206
Married	-0.3744	0.1796	18.2201*	-1.0011**	-0.1073	18.3429*
	MSE = 64.04204			MSE = 35.14145		
Followup						
Not Married	-0.4417	0.0003	20.3235	-0.3165	0.2221	20.7962
Married	-0.8587**	-0.5676	21.1514*	-1.0231**	-0.4893	21.5030
	MSE = 27.86584			MSE = 26.69602		

(continued)

Table V-C-4.10

Marital Status	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control

WIC Status				
Marital Status	WIC	WIC/control	Control	Total
Weight				
Not Married	1,948	106	308	2,362
Married	<u>1,628</u>	<u>115</u>	<u>387</u>	<u>2,130</u>
Total	3,576	221	695	4,492
Arm Circumference				
Not Married	1,995	108	316	2,419
Married	<u>1,660</u>	<u>117</u>	<u>403</u>	<u>2,180</u>
Total	3,655	225	719	4,599
Triceps Skinfold				
Not Married	1,975	108	317	2,400
Married	<u>1,644</u>	<u>117</u>	<u>400</u>	<u>2,161</u>
Total	3,619	225	717	4,561
Subscapular Skinfold				
Not Married	1,953	106	311	2,370
Married	<u>1,626</u>	<u>117</u>	<u>390</u>	<u>2,133</u>
Total	3,579	223	701	4,503

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control group and differences from Control group means for WIC and WIC/control groups.

^bInitial interviews controlled for duration of gestation at registration into study. Followup interviews controlled for duration of gestation at both interviews.^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews controlled for duration of gestation at both interviews and maternal characteristics at registration into study. See Appendix V-C-1 for full covariate list.

Table V-C-4.11

Maternal Anthropometry by WIC Status^a and Presence of Father and Household Size

Married or Father Present and Household Size	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Weight (kg)						
Initial						
W/O Adjusting for Weight at Conception						
No, HHS=1	2.5181	10.1818	63.2918	2.2170	8.9536	64.4481
No, HHS=2,3	-0.2745	-1.0844	65.9120	-0.2935	-1.1492	66.7179
No, HHS=4+	-0.5958	-3.5475	64.3000	-0.1208	-2.6604	66.2380
Yes, HHS=1	15.0337	22.6414	60.5718	12.8900	20.7069	62.5099
Yes, HHS=2,3	1.9682	-0.2292	63.1641	1.3170	-0.3786	65.3757
Yes, HHS=4+	-0.7321	-3.5566	67.7211	-1.2004	-2.2684	68.1242
	MSE =	218.5553		MSE =	178.7273	
Adjusting for Weight at Conception						
No, HHS=1	-1.2523	0.2614	66.8446	-1.0096	0.4766	66.7103
No, HHS=2,3	-1.4116*	-0.5613	66.4767	-1.3866*	-0.4326	66.5277
No, HHS=4+	-0.8912	-1.8909*	66.0064	-0.8552	-1.7492	66.2000
Yes, HHS=1	-5.4230	0.9485	66.1907	-4.7843	2.3104	65.9196
Yes, HHS=2,3	-0.4530	-0.5956	65.3609	-0.4530	-0.4649	65.7599
Yes, HHS=4+	-0.3999	-0.9927	65.6943	-0.4870	-0.8578	66.1262
	MSE =	27.81632		MSE =	27.29074	
Followup						
No, HHS=1	-1.5625	-0.4269	73.3418	-1.7613	-0.6764	73.5795
No, HHS=2,3	0.1095	0.5504	71.8805	0.2569	0.4922	72.2626
No, HHS=4+	-0.1354	0.2993	71.9943	0.1053	0.1660	72.2683
Yes, HHS=1	1.5121	-8.7369	73.6182	0.2265	-9.2835	73.7350
Yes, HHS=2,3	-0.2442	-0.1433	72.7377	-0.2254	-0.2789	72.8850
Yes, HHS=4+	0.1469	-0.6210	71.7950	0.3683	-0.6142	72.4230
	MSE =	22.05645		MSE =	20.96078	
Arm Circumference (cm)						
Initial						
No, HHS=1	1.1286	1.8707	26.4031	-0.1974	-0.5325	27.8152
No, HHS=2,3	0.2782	-0.7149	27.0547	-0.2625	-0.6399	27.6144
No, HHS=4+	0.2097	0.6338	26.5913	-0.0274	1.2593	27.5621
Yes, HHS=1	4.5022	3.2187	25.5666	-1.2731	-2.5150	27.7441
Yes, HHS=2,3	0.4639	-0.3466	26.8792	-0.2674	-0.6994	27.8543
Yes, HHS=4+	0.6526	-0.2174	27.8150	0.4436	0.0085	27.6416
	MSE =	55.81899		MSE =	41.7387	
Followup						
No, HHS=1	-0.0653	1.8130	27.5634	-0.9179	0.2402	28.0472
No, HHS=2,3	0.0530	-0.2073	27.9327	-0.1492	-0.1548	27.9385
No, HHS=4+	0.2240	-1.0956	27.3307	0.1277	-0.6312	27.5818
Yes, HHS=1	2.9042	5.2954	26.2936	-0.5818	1.9277	27.1321
Yes, HHS=2,3	-0.0548	0.1705	28.2694	-0.3396	-0.0774	28.5282
Yes, HHS=4+	-0.1336	0.1764	28.3473	0.1535	0.5235	27.8218
	MSE =	47.67029		MSE =	41.16176	
Triceps Skinfold (mm)						
Initial						
No, HHS=1	2.4431	4.0343	17.9199	0.7870	0.7794	19.4373
No, HHS=2,3	-1.1085	-2.6187	21.3001	-1.2438	-2.1482	21.7029
No, HHS=4+	-1.8776*	-1.2462	20.7110	-1.6749*	-0.3291	21.7500
Yes, HHS=1	7.3187	1.9655	18.1598	-0.3057	-5.1757	20.6353
Yes, HHS=2,3	0.1928	0.0909	20.1047	-0.5026	-0.1670	20.6313
Yes, HHS=4+	0.0296	-0.2090	21.5469*	0.3959	0.6977	20.1689
	MSE =	76.56877		MSE =	47.64928	

(continue)

Table V-C-4.11 (continued)

		Partially Adjusted ^b			Fully Adjusted ^c		
Married or Father Present and Household Size		WIC	WIC/Control	Control	WIC	WIC/Control	Control
Followup							
No, HHS=1		-0.8498	1.2867	22.8492	-1.2726	0.5854	23.6340
No, HHS=2,3		-1.8526**	1.2296	23.1007	-1.9244**	1.0985	23.7685
No, HHS=4+		-0.9099	0.6729	21.9783	-0.9205	0.7836	22.6337
Yes, HHS=1		1.2098	-5.1858	22.7318	-0.0650	-5.8220	23.0994
Yes, HHS=2,3		-0.6055	-0.9563	22.6695	-0.7111	-1.0750	22.7793
Yes, HHS=4+		-2.1568**	-2.6703**	23.8567	-1.9534**	-2.5428**	23.7630
	MSE =		30.33134		MSE =	29.17313	
Subscapular Skinfold (mm)							
Initial							
No, HHS=1		1.7457	2.6426	15.2880	0.0544	0.3357	16.7830
No, HHS=2,3		0.8881	0.8000	17.0677	0.4658	1.3723	17.2662
No, HHS=4+		-0.2165	-0.3608	16.7907	-0.6763	0.1900	17.8285
Yes, HHS=1		12.4778	12.0605	13.9819	4.5982	2.4877	16.6929
Yes, HHS=2,3		0.0938	1.4275	17.3863	-0.7968*	0.7735	18.2742
Yes, HHS=4+		-0.8987	-0.6846	19.0434*	-0.7763	-0.1909	17.9199
	MSE =		63.84047		MSE =	35.40182	
Followup							
No, HHS=1		0.5839	0.8196	20.2746	0.2456	0.2666	20.8662
No, HHS=2,3		-0.8085	1.2967	20.6496	-0.6873	1.6054	21.1791
No, HHS=4+		-0.4956	0.0278	20.2933	-0.4410	0.2510	20.9919
Yes, HHS=1		3.0237	-5.5000	20.7098	2.5951	-5.2800	20.4969
Yes, HHS=2,3		-0.2360	-0.9418	20.5919	-0.4756	-0.8166	20.9550
Yes, HHS=4+		-1.5118**	-0.7630	21.5402	-1.4679**	-0.6321	21.8697
	MSE =		27.86456		MSE =	26.69946	
Married or Father Present and Household Size		Total					
Weight							
No, HHS=1		119	8	26			153
No, HHS=2,3		623	31	98			752
No, HHS=4+		880	46	123			1,049
Yes, HHS=2,3		1,089	74	263			1,426
Yes, HHS=4+		862	61	181			1,104
Total		3,573	220	691			4,484
Arm Circumference							
No, HHS=1		120	8	28			156
No, HHS=2,3		638	33	100			771
No, HHS=4+		899	46	125			1,070
Yes, HHS=2,3		1,112	75	275			1,462
Yes, HHS=4+		883	62	187			1,132
Total		3,652	224	715			4,591
Triceps Skinfold							
No, HHS=1		120	8	28			156
No, HHS=2,3		632	33	100			765
No, HHS=4+		891	46	125			1,062
Yes, HHS=2,3		1,099	75	273			1,447
Yes, HHS=4+		874	62	187			1,123
Total		3,616	224	713			4,553

(continued)

Table V-C-4.11 (continued)

Married or Father Present and Household Size	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Subscapular Skinfold						
No, HHS=1	118	7	27			152
No, HHS=2,3	619	32	98			749
No, HHS=4+	885	46	122			1,053
Yes, HHS=2,3	1,088	75	268			1,431
Yes, HHS=4+	866	62	182			1,110
Total	3,576	222	697			4,495

*
p < 0.05.

**
p < 0.01.

p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/Control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control group and differences from Control group means for WIC and WIC/Control groups.

^bInitial interviews controlled for duration of gestation at registration into study. Followup interviews controlled for duration of gestation at aboth interviews.

^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews controlled for duration of gestation at both interviews and maternal characteristics at registration into study. See Appendix V-C-1 for full covariate list.

Table V-C-4.12
Maternal Anthropometry by WIC Status^a and Maternal Education

Maternal Education (yrs)	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
Weight (kg)						
Initial						
	W/o Adjusting for Weight at Conception					
<12	0.5002	-1.4915	63.3264	0.1831	-1.8559	65.7763
12+	1.1297	0.2239	66.1208*	0.1958	0.3752	67.0641
	MSE =	217.2079		MSE =	178.957	
	Adjusting for Weight at Conception					
<12	-0.1525	-0.5886	65.2510	-0.1282	-0.5118	65.6259
12+	-1.0716**	-0.9606	66.1690*	-1.1871**	-0.7990	66.5333*
	MSE =	27.79534		MSE =	27.26362	
Followup						
<12	0.0807	-0.0170	71.9698	0.2962	-0.2232	72.4726
12+	-0.3303	-0.1763	72.4824	-0.2615	-0.1178	72.6685
	MSE =	22.11353		MSE =	20.9469	
Arm Circumference (cm)						
Initial						
<12	0.6559	0.1259	26.5667	0.3924	0.3493	27.3165
12+	0.3803	0.0720	27.4376	-0.3500	-0.4589	27.9305
	MSE =	55.90786		MSE =	41.67524	
Followup						
<12	-0.1141	0.0418	27.8033	0.0228	0.3067	27.9561
12+	0.1527	-0.0946	28.2115	-0.2311	-0.4769	28.2026
	MSE =	47.58444		MSE =	41.12248	
Triceps Skinfold (mm)						
Initial						
<12	-1.0919*	-1.2819	20.5230	-1.0198*	-0.7174	21.1560
12+	0.4709	0.9337	20.7613	-0.2161	0.1876	20.7242
	MSE =	76.56386		MSE =	47.68393	
Followup						
<12	-1.1427**	0.2007	22.6491	-1.0462**	0.2173	22.8938
12+	-1.4327**	-1.8920**	23.1230	-1.4557**	-1.9772**	23.2948
	MSE =	30.4678		MSE =	29.1989	
Subscapular Skinfold (mm)						
Initial						
<12	-0.4659	-0.3687	17.4198	-0.7835*	-0.0618	18.1581
12+	0.4933	1.9505*	17.6761	-0.3842	0.9707	17.6645
	MSE =	63.84271		MSE =	35.36668	
Followup						
<12	-0.7991*	0.0422	20.6913	-0.8709**	0.0865	21.2086
12+	-0.5561	-0.8175	20.8477	-0.6298*	-0.6809	21.1869
	MSE =	27.88801		MSE =	26.72878	

(continued)

Table V-C-4.12 (continued)

Maternal Education (yrs)	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/Control	Control	WIC	WIC/Control	Control
<u>Number of Subjects</u>						
Weight						<u>Total</u>
<12	1992	135	293			2,420
12+	1584	86	402			2,072
Total	3576	221	695			4,492
Arm Circumference						
<	2,029	136	301			2,466
12+	1,626	89	418			2,133
Total	3,655	225	719			4,599
Triceps Skinfold						
<12	3,009	136	300			2,445
12+	1,610	89	417			2,116
Total	3,619	225	717			4,561
Subscapular Skinfold						
<12	1,996	135	292			2,423
12+	1,583	88	409			2,080
Total	3,579	223	701			4,503

* p < 0.05.

** p < 0.01.

*** p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/Control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control group and differences from Control group means for WIC and WIC/Control groups.

^bInitial interviews controlled for duration of gestation at registration into study. Followup interviews controlled for duration of gestation at both interviews.^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews controlled for duration of gestation at both interviews and maternal characteristics at registration into study. See Appendix V-C-1 for full covariate list.

Table V-C-4.13
Maternal Anthropometry by WIC Status^a and Family Income

Annual Family Income	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Weight (kg)						
Initial						
W/o Adjusting for Weight at Conception						
<3000	-1.2277	-1.9546	66.4829	-3.1035	-3.8930	69.1640
3000--	-0.0749	-2.2194	65.5196	0.1264	-1.6589	66.2932
7000--	1.1967	-1.3787	65.4942	0.2360	-0.8508	66.8941
13000--	1.1207	-1.9492	65.3697	2.1709	-0.1480	65.6359
Missing	1.1756	1.4756	61.1383	1.2235	1.3653	64.3470
	MSE =	218.4191		MSE =	178.7615	
Adjusting for Weight at Conception						
<3000	-1.6690*	-2.0269	66.8693	-1.8741**	-2.1493	67.2855
3000--	-0.8370	-0.8108	66.0821	-0.7475	-0.6339	66.2532
7000--	-0.3201	-0.5530	65.3894	-0.3657	-0.3263	65.7925
13000--	-0.9110	-1.0706	65.7942	-0.8056	-0.8558	66.0277
Missing	-0.7806	-1.4344	65.6622	-0.5659	-1.1712	65.9785
	MSE =	27.83262		MSE =	27.30416	
Followup						
<3000	1.5013*	3.5264**	70.6802	1.4803*	3.5469***	71.1831***
3000--	-0.7837	-0.5625	72.5850	-0.7043	-0.8584	73.1294
7000--	-0.3270	-0.7084	72.5476	-0.0678	-0.5769	72.6921
13000--	0.5250	0.3355	71.7733	0.5486	0.3559	72.0904
Missing	-0.2526	-1.1677	72.5326	-0.1574	-1.4794	72.9017
	MSE =	22.05616		MSE =	20.91509	
Arm Circumference (cm)						
Initial						
<3000	-0.3100	-0.7738	27.9141	-0.3041	-0.7504	28.2463
3000--	0.1837	-0.6768	27.3252	-0.0805	-0.3972	27.8011
7000--	0.5561	-0.6446	27.2831	-0.0745	-0.6181	27.6078
13000--	0.8523	-0.6248	26.9646	0.1127	-0.7509	27.4894
Missing	0.8957	3.2394*	25.6547	0.0872	2.3052	27.3823
	MSE =	55.88066		MSE =	41.69778	
Followup						
<3000	-0.5909	0.2508	28.1548	-0.3427	0.3264	28.0126
3000--	-0.9404	0.2960	28.8348	-0.9862	0.4632	28.8659
7000--	0.6886	0.0026	27.9645	0.4704	-0.0722	27.8789
13000--	0.2027	-1.5449	28.0303	-0.1264	-1.6667	27.9823
Missing	0.3808	-0.7474	26.9896	0.2537	-0.7487	27.5488
	MSE =	47.50017		MSE =	41.07921	
Triceps Skinfold (mm)						
Initial						
<3000	-1.1946	-2.6813	20.7783	-0.5774	-1.9945	20.7002*
3000--	-2.2912**	-2.9617*	22.6549	-2.2119**	-2.1144*	22.7612
7000--	0.9954	0.7292	19.7738	0.4840	0.8609	19.5064***
13000--	1.2295	0.0688	20.3985	0.5955	0.2135	20.0556***
Missing	-1.3775	1.6934	20.2387	-1.9549**	0.4062	22.2137
	MSE =	76.66882		MSE =	47.35446	
Followup						
<3000	-1.0968	1.6968	22.6412	-0.9350	1.9221	22.9301
3000--	-1.1932*	-0.4976	22.8537	-1.2859**	-0.7385	23.3219
7000--	-1.1244**	-0.8142	22.8478	-0.9958**	-0.6669	22.7003
13000--	-1.0945	-3.0646*	23.1276	-1.1133	-2.9966*	23.2470
Missing	-2.2675**	-0.8749	23.2519	-2.4790**	-1.2828	23.9397
	MSE =	30.45067		MSE =	29.17784	

(continued)

Table V-C-4.13 (continued)

Annual Family Income	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Subscapular Skinfold (mm)						
Initial						
<3000	0.9028	-0.2509	16.2015	1.3117	0.5489	15.9540*
3000--	-0.7152	-0.4237	18.3412	-0.9581	0.0529	18.4810
7000--	0.4273	1.4211	17.5626	-0.3399	1.0963	17.4982
13000--	-0.4189	-1.0955	18.6026	-1.6016*	-1.3097	18.9740
Missing	-0.0981	1.9853	16.4516	-1.0867	0.7241	18.3396
	MSE =	63.92507		MSE =	35.2883	
Followup						
<3000	-0.9942	1.3768	21.0383	-0.6589	1.9910	21.2577
3000--	-0.4122	-0.1409	20.6110	-0.4517	-0.1125	21.1587
7000--	-0.8139*	-0.5504	20.9411	-0.7481*	-0.1944	21.0651
13000--	-0.3406	-0.7533	20.4573	-0.7340	-0.8450	20.9891
Missing	-1.0085	-0.8979	20.7163	-1.1258*	-1.0705	21.3699
	MSE =	27.92803		MSE =	26.73895	
Number of Subjects						
Family Income (dollars/100)			Total			
Weight						
<3,000	565	22	69	656		
3,000-6,999	1160	73	151	1384		
7,000-12,999	922	67	280	1269		
13,000+	362	24	92	478		
Missing	567	35	103	705		
Total	3576	221	695	4492		
Arm Circumference						
<3,000	573	24	69	666		
3,000-6,999	1190	73	159	1422		
7,000-12,999	945	67	291	1303		
13,000+	367	26	94	487		
Missing	580	35	106	721		
Total	3655	225	719	4599		
Triceps Skinfold						
<3000	565	24	70	659		
3,000-6,999	1178	73	158	1409		
7,000-12,999	934	67	289	1200		
13,000+	364	26	94	484		
Missing	578	35	106	719		
Total	3619	225	717	4561		
Subscapular Skinfold						
<3000	557	23	70	650		
3,000-6,999	1160	72	153	1385		
7,000-12,999	925	67	283	1275		
13,000+	363	26	92	481		
Missing	574	35	103	712		
Total	3579	223	701	4503		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control group and differences from Control group means for WIC and WIC/Control groups.

^bInitial interviews controlled for duration of gestation at registration into study. Followup interviews controlled for duration of gestation at both interviews.^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews controlled for duration of gestation at both interviews and maternal characteristics at registration into study. See Appendix V-C-1 for full covariate list.

Table V-C-4. 14
Maternal Anthropometry by WIC Status^a and Receipt of AFDC and Food Stamps

Participation Group	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Weight (kg)						
Initial						
W/o Adjusting for Weight at Conception						
Nonparticipant	0.0619	-0.3159	64.1038	0.4804	0.2429	65.1157
AFDC	1.5510	18.3444	64.2546	3.3321	11.7218	64.7874
Food Stamps	-1.3727	-4.3814	67.6653	-1.3953	-3.2691	68.8199**
AFDC and FS	1.7218	-3.9721	65.7673	-0.5968	-5.9568	68.7460
	MSE =	218.5511		MSE =	178.1157	
Adjusting for Weight at Conception						
Nonparticipant	-0.8799**	-0.7751	65.6249	-0.7146**	-0.5440	65.8756
AFDC	0.4267	6.0717	65.7316	0.7553	5.6372	65.7495
Food Stamps	-1.0258*	-1.1635	66.3056	-1.0293*	-1.0415	66.5861
AFDC and FS	-0.0746	-1.7789	65.8041	-0.2667	-1.9174	66.1781
	MSE =	27.70247		MSE =	27.25577	
Followup						
Nonparticipant	-0.0773	-0.6260	72.5620	-0.0333	-0.7524	72.8027
AFDC	0.5618	6.4168	71.4500	0.6485	6.4812	72.1858
Food Stamps	0.4016	0.9790	71.3863	0.3293	0.8285	72.0268
AFDC and FS	-0.7404	0.1620	72.1058	-0.6601	0.1095	72.9814
	MSE =	21.95962		MSE =	20.93419	
Arm Circumference (cm)						
Initial						
Nonparticipant	0.3537	-0.3938	26.8702	-0.0812	-0.5798	27.6652
AFDC	-0.0726	3.5280	27.3854	-0.4750	0.2801	28.2055
Food Stamps	-0.0168	0.9436	27.7707	-0.0309	1.3812	27.7514
AFDC and FS	1.0765	-0.3040	26.8520	0.7821	0.2852	26.8853
	MSE =	55.94992		MSE =	41.69819	
Followup						
Nonparticipant	-0.1454	-0.2214	27.9302	-0.2059	-0.4121	28.0864
AFDC	-1.8113	1.6009	29.8601	-1.9843	0.9085	30.1117
Food Stamps	0.1096	0.2084	28.2723	0.2347	0.8812	28.0002
AFDC and FS	0.2473	0.4645	27.6991	0.3523	1.1234	27.4323
	MSE =	47.66617		MSE =	41.12781	
Triceps Skinfold (mm)						
Initial						
Nonparticipant	0.0908	0.4224	19.7621	-0.0923	0.3565	20.1717
AFDC	-0.7993	-3.1877	18.7953	-1.0144	-4.6951	19.5051
Food Stamps	-3.3448**	-3.2846*	24.6516	-3.0409**	-2.2061*	24.2549***
AFDC and FS	2.6306	0.4898	17.3871	2.5420*	1.8489	17.2421*
	MSE =	76.16218		MSE =	47.04797	
Followup						
Nonparticipant	-1.1270**	-1.2905*	22.8731	-1.0740**	-1.2837*	22.9739
AFDC	0.7296	4.7686	20.8621	0.8409	4.8378	21.0807
Food Stamps	-2.0913**	0.0465	23.6433	-2.3547**	-0.1331	24.2434*
AFDC and FS	-0.3058	1.4683	21.4250	-0.2276	1.6032	21.7495
	MSE =	30.42569		MSE =	29.15767	
Subscapular Skinfold (mm)						
Initial						
Nonparticipant	-0.2816	0.7595	17.4062	-0.7876**	0.3413	17.9897
AFDC	2.5696	12.0467	14.2214	2.2274	9.0485	14.5683*
Food Stamps	-0.9498	-0.4131	18.9616	-0.8692	0.3821	18.5541
AFDC and FS	2.3947	0.3638	15.5467	2.1100	1.7066	15.1175*
	MSE =	63.96641		MSE =	35.28442	

(continued)

Table V-C-4.14 (continued)

Participation Group	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Followup						
Nonparticipant	-0.7313**	-1.2712**	20.8621	-0.7713**	-1.1794*	21.2370
AFDC	2.5182	7.0056	17.6019	2.6341	7.7372	17.9153**
Food Stamps	-0.9962*	1.1012	21.1639	-1.1735*	1.2738	21.7314
AFDC and FS	0.2381	2.6144	19.4271	0.4026	3.1878*	19.6892
	MSE =	27.80541		MSE =	26.59267	
Participation Group						
Weight						
Nonparticipant	1873	148	502	2523		
AFDC	121	1	17	139		
Food Stamps	1031	51	148	1230		
AFDC and Food Stamps	551	21	28	600		
Total	3576	221	695	4492		
Arm Circumference						
Nonparticipant	1917	151	520	2588		
AFDC	122	1	17	140		
Food Stamps	1052	51	151	1254		
AFDC and Food Stamps	564	22	31	617		
Total	3655	225	719	4599		
Triceps Skinfold						
Nonparticipant	1900	151	519	2570		
AFDC	122	1	17	140		
Food Stamps	1039	51	150	1240		
AFDC and Food Stamps	558	22	31	611		
Total	3619	225	717	4561		
Subscapular Skinfold						
Nonparticipant	1886	150	508	2544		
AFDC	122	1	17	140		
Food Stamps	1019	50	145	1214		
AFDC and Food Stamps	552	22	31	605		
Total	3579	223	701	4503		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control group and differences from Control group means for WIC and WIC/control groups.

^bInitial interviews controlled for duration of gestation at registration into study. Followup interviews controlled for duration of gestation at both interviews.^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews controlled for duration of gestation at both interviews and maternal characteristics at registration into study. See Appendix V-C-1 for full covariate list.

Table V-C-4.15
Maternal Anthropometry by WIC Status^a and Medicaid

Medicaid	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Weight (kg)						
Initial						
W/o Adjusting for Weight at Conception						
Not Medicaid	0.2406	-1.4375	65.0252	0.2313	-0.8722	66.3677
Medicaid	0.9954	-1.1516	64.6384	0.1111	-1.2556	66.2933
	MSE =	220.0206		MSE =	178.792	
Adjusting for Weight at Conception						
Not Medicaid	-0.5394*	-0.7772	65.5952	-0.5546*	-0.5880	66.0142
Medicaid	-1.0940*	-1.3380	66.3424	-1.1788**	-1.2684	66.4752
	MSE =	27.80906		MSE =	27.2806	
Followup						
Not Medicaid	-0.2784	-0.4478	72.3891	-0.0301	-0.5364	72.5650
Medicaid	0.1503	0.5811	71.8922	0.2223	0.5154	72.6398
	MSE =	22.11627		MSE =	20.94991	
Arm Circumference (cm)						
Initial						
Not Medicaid	0.5427	-0.4835	27.0156	0.1704	-0.4744	27.5383
Medicaid	0.0000	0.9749	27.2427	-0.6862	0.7677	28.0876
	MSE =	55.97055		MSE =	41.64247	
Followup						
Not Medicaid	-0.0925	-0.1971	27.9990	-0.0192	-0.2626	27.9438
Medicaid	0.1293	0.1430	28.1549	-0.2616	0.4533	28.4989
	MSE =	47.65827		MSE =	41.10406	
Triceps Skinfold (mm)						
Initial						
Not Medicaid	0.2434	0.3023	19.8762	0.4128	0.5473	19.7526
Medicaid	-2.4022**	-2.8161*	23.0415	-2.8551**	-2.5244*	24.0382**
	MSE =	76.9443		MSE =	47.0488	
Followup						
Not Medicaid	-1.4791**	-1.1429*	23.0035	-1.2103**	-1.1080*	22.9481
Medicaid	-0.8583	0.3944	22.6725	-1.1952**	0.2037	23.5893
	MSE =	30.48463		MSE =	29.15711	
Subscapular Skinfold (mm)						
Initial						
Not Medicaid	-0.5654	0.4380	17.7985	-0.7601**	0.3711	17.8257
Medicaid	1.5782*	0.7521	16.8325	0.6268	0.6842	17.8649
	MSE =	63.99248		MSE =	35.14086	
Followup						
Not Medicaid	-1.0307**	-0.9677*	21.0794	-0.9864**	-0.8263	21.3633
Medicaid	0.2812	1.4650	21.0794	0.1958	1.6189*	20.5620
	MSE =	27.8673		MSE =	26.65864	

(continued)

Table V-C-4.15 (continued)

Medicaid	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Number of Subjects						
Weight						
Not Medicaid	2781	159	523	3463		
Medicaid	795	62	172	1029		
Total	3576	221	695	4492		
Arm Circumference						
Not Medicaid	2841	161	543	3545		
Medicaid	814	64	176	1054		
Total	3655	225	719	4599		
Triceps Skinfold						
Not Medicaid	2814	161	541	3516		
Medicaid	805	64	176	1045		
Total	3619	225	717	4561		
Subscapular Skinfold						
Not Medicaid	2787	160	530	3477		
Medicaid	792	63	171	1026		
Total	3579	223	701	4503		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control group and differences from Control group means for WIC and WIC/Control groups.

^bInitial interviews controlled for duration of gestation at registration into study. Followup interviews controlled for duration of gestation at both interviews.^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews controlled for duration of gestation at both interviews and maternal characteristics at registration into study. See Appendix V-C-1 for full covariate list.

Table V-C-4.16
Maternal Anthropometry by WIC Status^a and Employment Status

Employment Status	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
WEIGHT (kg)						
Initial						
W/O Adjusting for Weight at Conception						
Not Working	-0.0724	-2.7152*	65.2995	-0.2381	-2.3562*	66.4870
Work at T1/Not T2	2.2353	2.6009	64.3782	2.6623	4.2163	63.5928
Work at T2	2.0391	4.1373	63.2007	1.0745	3.1564	63.0745*
	MSE =	219.8221		MSE =	178.4947	
Adjusting for Weight at Conception						
Not Working	-0.6718**	-1.1015*	65.8198	-0.7201**	-1.0148*	66.1214
Work at T1/Not T2	-1.0494	0.0060	65.8832	-0.7476	0.5248	65.7988
Work at T2	-0.5295	-0.9475	65.4277	-0.5282	-0.7217	65.5614
	MSE =	27.82842		MSE =	27.28835	
Followup						
Not Working	-0.2078	-0.0520	72.2760	-0.0508	-0.1472	72.5233
Work at T1/Not T2	-0.5878	-1.3959	72.6719	-0.1384	-1.2218	72.3281
Work at T2	0.5704	0.4793	71.7863	0.5619	0.2962	71.8299
	MSE =	22.12323		MSE =	20.97456	
Arm Circumference (cm)						
Initial						
Not Working	0.0605	-0.5389	27.2729	-0.2453	-0.2554	27.4398
Work at T1/Not T2	2.1553*	1.1199	26.6396	0.9348	0.2460	28.0554
Work at T2	1.3667	2.2648	26.2689	0.5285	0.7620	27.6938
	MSE =	55.87958		MSE =	41.63575	
Followup						
Not Working	0.0350	-0.0409	28.0266	0.0883	0.1397	28.2062
Work at T1/Not T2	-0.4782	-0.0975	27.9347	-0.7246	-0.6312	28.1571
Work at T2	-0.3523	-0.5116	28.2083	-0.6367	-1.1187	28.5293
	MSE =	47.6869		MSE =	41.12693	
Triceps Skinfold (mm)						
Initial						
Not Working	-0.5885	-0.9719	20.7747	-0.3187	-0.3247	20.8337
Work at T1/Not T2	0.4312	2.4627	20.1289	-0.7021	1.2236	21.2812
Work at T2	-0.1264	-0.6373	20.4775	-0.6516	-2.0252	21.4721
	MSE =	77.25979		MSE =	47.28918	
Followup						
Not Working	-1.4270**	-0.5456	23.0741	-1.2696**	-0.5173	23.3860
Work at T1/Not T2	-0.7397	-1.2194	21.8466	-0.5816	-1.2961	22.2151
Work at T2	-1.5436*	-1.3308	23.0759	-1.6701*	-1.6973	23.7304
	MSE =	30.46733		MSE =	29.16629	
Subscapular Skinfold (mm)						
Initial						
Not Working	-0.1286	-0.1658	17.5343	-0.2538	0.2264	17.5529
Work at T1/Not T2	0.3808	3.5274*	17.7322	-1.0174	2.0474	18.8096
Work at T2	0.0757	1.5745	17.6083	-0.6911	-0.4129	18.5135
	MSE =	64.12576		MSE =	35.2348	
Followup						
Not Working	-0.8559**	-0.1084	20.9613	-0.7905**	0.1008	21.3639
Work at T1/Not T2	0.3089	-0.9112	19.8289	0.3166	-0.7174	20.2114
Work at T2	-0.9612	-1.4667	20.6469	-1.1135	-1.7279	21.2363
	MSE =	27.88173		MSE =	26.66154	

(continue)

Table V-C-4.16 (continued)

Employment Status	Partially Adjusted ^b			Fully Adjusted ^c		
	WIC	WIC/control	Control	WIC	WIC/control	Control
Subscapular Skinfold (mm)						
Initial						
White Nonhispanic	-0.5416	1.4222	17.4878	-1.1006**	2.1654**	18.1198
White Hispanic	0.8724	0.6997	17.8919	0.1123	-0.4708	18.2064
Black	-0.1871	-1.3765	17.9476	0.3930	-0.5437	17.3515
Other	1.7779	0.1119	14.9445	2.2902	0.1416	16.1658
	MSE =	63.82069		MSE =	34.96252	
Followup						
White Nonhispanic	-0.1445	0.1006	20.4959	-0.3783	0.4720	20.8595
White Hispanic	-1.3639**	-0.6454	21.4822	-1.3564**	-0.7702	21.7797
Black	-1.2800**	-1.8385*	20.9125	-1.0192*	-1.6186	20.8294
Other	-0.8636	2.7424	20.5396	-0.3994	2.9333	20.5398
	MSE =	27.81059		MSE =	26.67624	
WIC Status						
Employment Status	WIC	WIC/control	Control	Total		
Weight						
Not working	2,948	173	525	3,646		
Work at T1/Not T2	306	32	86	424		
Work at T2	322	16	84	422		
Total	3,576	221	695	4,492		
Arm Circumference						
Not working	3,008	176	543	3,727		
Work at T1/Not T2	317	32	89	438		
Work at T2	330	17	87	434		
Total	3,655	225	719	4,599		
Triceps Skinfold						
Not working	2,977	176	540	3,693		
Work at T1/Not T2	316	32	90	438		
Work at T2	326	17	87	430		
Total	3,619	225	717	4,561		
Subscapular Skinfold						
Not working	2,946	174	527	3,647		
Work at T1/Not T2	308	32	89	429		
Work at T2	325	17	85	427		
Total	3,579	223	701	4,503		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aWIC = WIC at registration and at followup.

WIC/control = Control at registration and WIC at followup.

Control = Control at registration and at followup.

Entries in table are means for Control group and differences from Control group means for WIC and WIC/control groups.

^bInitial interviews controlled for duration of gestation at registration into study. Followup interviews controlled for duration of gestation at both interviews.^cInitial interviews controlled for duration of gestation and maternal characteristics at registration into study. Followup interviews controlled for duration of gestation at both interviews and maternal characteristics at registration into study. See Appendix V-C-1 for full covariate list.

Table V-D-1

Covariates Used in Regression Analyses of Maternal Health
Care and Behavior

Variable Name	Variable Definition and Units	Mean	Standard Deviation
WICCAT1	WIC at Registration and at Followup = 1, Others = 0	0.795 ^a	
WICCAT2	Control at Registration, WIC at Followup = 1, Others = 0	0.049	
BABYSEX	Male = 1, Female = 0	0.504	
GESTT1	Duration of Gestation at Initial Interview (d)	124.356	41.0
CATETH1	White Hispanic = 1, vs. White Non- hispanic = 0	0.177	
CATETH2	Black = 1, vs. White, Nonhispanic = 0	0.296	
CATETH3	Other Ethnicity = 1, vs. White Non- hispanic = 0	0.029	
INCOME	Yearly Income (dollars/100)	73.752	40.9
CATINC4	Income Missing = 1, Not Missing = 0	0.156	
MOMAGE	Mother's Age (y)	22.297	5.0
PARITY	Parity (n)	0.974	1.2
MOMED	Years of Education, Mother (y)	10.827	2.2
FATED	Years of Education, Father (y)	11.107	2.2
CATFED3	Father's Education Missing = 1, Not Missing = 0	0.080	
CATMOCC1	Mother: Farmworker = 1, vs. Physical Labor, Service, Manufacturing = 0	0.017	
CATMOCC2	Mother: Sales Worker, Skilled Trade, Clerical = 1, vs. Physical Labor, Service, Manufacturing = 0	0.242	
CATMOCC3	Mother: Professional Worker = 1, vs. Physical Labor, Service, Manufacturing = 0	0.035	
CATMOCC4	Mother: Has Never Worked = 1, vs. Physical Labor, Service, Manufacturing = 0	0.241	
CATFOCC1	Father: Farm Worker = 1, vs. Physical Labor, Service, Manufacturing = 0	0.049	
CATFOCC2	Father: Sales Worker, Skilled Trade, Clerical = 1, vs. Physical Labor, Service, Manufacturing = 0	0.191	
CATFOCC3	Father: Professional Worker = 1, vs. Physical Labor, Service, Manufacturing = 0	0.046	
CATFOCC4	Father: Never Worked = 1, vs. Physical Labor, Service, Manufacturing = 0	0.164	
MONORILL	Minor Illnesses During Current Pregnancy = 1, None = 0	0.109	
MARITAL	Mother Married = 1, vs. Not Married = 0	0.472	
LIVWFAT	Father in Home = 1, vs. Father Not in Home = 0	0.547	

(continued)

Table V-D-1 (continued)

Variable Name	Variable Definition and Units	Mean	Standard Deviation
CATMEMP1	Mother Employed = 1, vs. Housewife, Student, Disabled = 0	0.161	
CATMEMP2	Mother Unemployed = 1, vs. Housewife, Student, Disabled = 0	0.258	
CATFEMP1	Father Employed = 1, vs. Unemployed = 0	0.357	
CATFEMP2	Father Retired, In Jail, Deceased = 1, vs. Unemployed = 0	0.149	
AFDC	Mother on AFDC = 1, Others = 0	0.167	
MEDICAID	Mother on Medicaid = 1, Others = 0	0.231	
CATFDST	Mother Receives Food Stamps = 1, Others = 0	0.410	
HRSWORK1	Hours Mother Works/Week For All Mothers, Initial Interview (hr)	4.415	11.4
HRSWORK1	Hours Mother Works/Week For Working Mothers, Initial Interview (hr)	28.239	12.3
MOMSMOKE	Cigarettes Smoked/Day by Mother, Initial Interview (n)	4.130	7.2
EALC1	Ethanol Ingested/Week, Initial Interview (oz)	0.172	1.0
NOVISIT1	Number of Prenatal Care Visits at Initial Interview (n)	1.465	1.8
GESTT2	Duration of Gestation at Followup Interview (d) ^c	236.402	16.1
HRSWORK2	Hours Mother Works/Week For All Mothers, Followup Interview (hr) ^c	2.332	8.7
HRSWORK2	Hours Mother Works/Week For Working Mothers, Followup Interview (hr) ^c	12.263	16.7
T2SMOKE	Cigarettes Smoked/Day by Mother, ² Followup Interview (n) ^c	4.209	7.6
EALC2	Ethanol Ingested/Week, Followup Interview (oz) ^c	0.088	0.5
NOVISIT2	Number of Prenatal Care Visits at Followup Interview (n) ³	6.972	3.2
BREASTFD	Mother Breast Feeding Newborn Upon Hospital Discharge = 1, Other = 2 ^b	0.592	
PLANTOBF	Mother Planned To Breastfeed at Followup Interview = 1, Other = 0 ^c	0.570	
PLANBOTH	Mother Planned To Both Breastfeed and Bottle Feed at Followup Interview = 1, Other = 0 ^c	0.626	
FREEFMLA	Hospital Distributed Free Formula to Mother = 1, None = 0 ^b	0.292	
BWIC	WIC at Registration and Followup = 1, Others = 0	0.793	
BFWIC	WIC at Followup = 1, Others = 0	0.836	
CSEC	Previous Cesarean Sections = 1, None = 0	0.166	

(continued)

Table V-D-1 (continued)

Variable Name	Variable Definition and Units	Mean	Standard Deviation
EATEDNUM	Number of Nutrition Education Sessions (n) ^d	2.192	2.4
EATEDCNG	Diet effected by Nutrition Education = 1, Not effected = 0 ^d	1.111	
EATWHO1	Nutrition Education by WIC Staff = 1, Other = 0 ^d	0.592	
EATWHO2	Nutrition Education by Non-WIC Health Staff = 1, Other = 0 ^d	0.304	
EATWHO3	Nutrition Education by Others = 1, Other = 0 ^d	0.160	
TALKWHO1	Infant Feeding Advice by WIC Staff = 1, Other = 4 ^d	0.226	
TALKWHO2	Infant Feeding Advice by Non-WIC Staff = 1, Other = 0 ^d	0.153	
TALKWHO3	Infant Feeding Advice by Others = 1, Other = 0 ^d	0.137	
RXMETH1	Breastfeeding Recommended = 1, Other = 0 ^d	0.230	
RXMETH2	Breast and Bottle Feeding Recommended By One Source = 1, Other = 0 ^d	0.013	
RXMETH3	Breast and Bottle Feeding Recommended By Several Sources = 1, Other = 0 ^d	0.006	
RXMETH4	Other Infant Feeding Method Recommended = 1, Other = 0 ^d	0.011	
RXMETH5	No Infant Feeding Method Recommended = 1 Other = 0 ^d	0.002	

^aFor dichotomous variables, mean = proportion of subjects scored 1, i.e., WICCAT1 of 0.795 = 79.5% of women were in the control WIC sample.

^bData collected from Hospital Record Abstract Form.

^cIncluded only in Regression Models for Followup Interview.

^dIncluded only in Regression Models for Plans To Breastfeed at Followup Interview with possible Mediating Variables.

Table V-D-2.1

Multiple Regression Analyses of Cigarette Smoking^a

Number of cigarettes smoked (per day) at initial interview,
adjusted for duration of gestation at registration

		SSE	242924.3	F RATIO	3.33
		DPE	4643	PROB>F	0.0188
		MSE	52.320553	R-SQUARE	0.0021
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	4.089558	0.404721	10.1046	0.0001
WICCAT1	1	-0.744125	0.295368	-2.5193	0.0118
WICCAT2	1	-0.761371	0.549250	-1.3862	0.1658
GESTT1	1	0.005383799	0.002602345	2.0688	0.0386

Number of cigarettes smoked (per day) at initial interview,
further adjusted for other maternal characteristics

		SSE	207537	F RATIO	26.62
		DPE	4616	PROB>F	0.0001
		MSE	44.960361	R-SQUARE	0.1475
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	8.413007	0.998735	8.4237	0.0001
NOVISIT1	1	-0.251509	0.064351	-3.9084	0.0001
WICCAT1	1	-0.624406	0.305589	-2.0433	0.0411
WICCAT2	1	-0.232817	0.513411	-0.4535	0.6502
GESTT1	1	0.010767	0.00262311	4.1048	0.0001
HONAGE	1	0.108552	0.021856	4.9667	0.0001
CATHEMP1	1	-0.150296	0.302708	-0.4965	0.6196
CATHEMP2	1	1.085401	0.258806	4.1939	0.0001
CATPDST	1	0.722460	0.237063	3.0475	0.0023
MARITAL	1	-1.036888	0.341942	-3.0323	0.0024
LIWFPAT	1	0.00617058	0.342789	0.0180	0.9856
CATPED3	1	1.845967	0.397244	4.6469	0.0001
CATINC4	1	-0.865477	0.284571	-3.0413	0.0024
NOBED	1	-0.331607	0.057758	-5.7413	0.0001
CATHOCC1	1	-1.411413	0.829924	-1.7007	0.0891
CATHOCC2	1	-0.386768	0.255152	-1.5158	0.1296
CATHOCC3	1	-0.572044	0.573568	-0.9973	0.3187
CATHOCC4	1	-0.925862	0.272696	-3.3952	0.0007
CATETH1	1	-5.687760	0.300250	-18.9434	0.0001
CATETH2	1	-4.345197	0.253191	-17.1617	0.0001
CATETH3	1	-4.168650	0.597074	-6.9818	0.0001
APDC	1	-0.139460	0.303069	-0.4602	0.6454
MEDICAID	1	0.381307	0.261994	1.4554	0.1456
INCOME	1	-0.00338577	0.002654664	-1.2754	0.2022
PATED	1	-0.054081	0.054354	-0.9950	0.3198
CATPOCC1	1	-0.636723	0.496829	-1.2816	0.2001
CATPOCC2	1	-0.373955	0.265366	-1.4092	0.1588
CATPOCC3	1	-0.391549	0.502720	-0.7789	0.4361
CATPOCC4	1	-0.529645	0.323729	-1.6361	0.1019
CATPEMP1	1	0.202162	0.227450	0.8888	0.3741
CATPEMP2	1	0.264071	0.340385	0.7758	0.4379

Table V-D-2.1 (continued)

Number of cigarettes smoked (per day) at followup interview,
adjusted for number of cigarettes smoked at initial interview,
and duration of gestation at both interviews

		SSE	83410.46	F RATIO	322.25
		DPE	4614	PROB>F	0.0001
		MSE	18.077690	R-SQUARE	0.6909
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	1.790509	1.102993	1.6233	0.1046
MONSMOKE	1	0.842314	0.009322963	90.3483	0.0001
GESTT2	1	0.001907522	0.004132847	0.4616	0.6444
NOVISIT2	1	0.035821	0.020833	1.7194	0.0856
WICCAT1	1	0.098934	0.181493	0.5451	0.5857
WICCAT2	1	-0.014177	0.325559	-0.0435	0.9653
GESTT1	1	-0.0050283	0.001638413	-3.0690	0.0022
MONAGE	1	0.008961589	0.013888	0.6453	0.5188
CATBHP1	1	0.070188	0.192012	0.3655	0.7147
CATBHP2	1	0.261560	0.164540	1.5896	0.1120
CATPDST	1	0.066218	0.150459	0.4401	0.6599
MARITAL	1	-0.034164	0.217055	-0.1574	0.8749
LIVBPAT	1	0.297988	0.217349	1.3710	0.1704
CATPED3	1	0.370111	0.252424	1.4662	0.1427
CATINC4	1	-0.187714	0.180506	-1.0399	0.2984
MONED	1	-0.095563	0.036748	-2.6005	0.0093
CATHOCC1	1	-0.133756	0.526517	-0.2540	0.7995
CATHOCC2	1	-0.132826	0.161763	-0.8211	0.4116
CATHOCC3	1	-0.317034	0.363655	-0.8718	0.3834
CATHOCC4	1	-0.149137	0.173198	-0.8611	0.3892
CATETH1	1	-1.318800	0.197738	-6.6694	0.0001
CATETH2	1	-0.821001	0.165013	-4.9754	0.0001
CATETH3	1	-0.386953	0.380634	-1.0166	0.3094
AFDC	1	0.143807	0.192190	0.7483	0.4543
MEDICAID	1	0.343057	0.166356	2.0622	0.0392
INCOME	1	0.0007241357	0.001683811	0.4301	0.6672
FATED	1	-0.025694	0.034468	-0.7455	0.4560
CATPOCC1	1	-0.164421	0.315140	-0.5217	0.6019
CATPOCC2	1	0.153479	0.168287	0.9120	0.3618
CATPOCC3	1	-0.199178	0.318873	-0.6246	0.5322
CATPOCC4	1	0.224707	0.205188	1.0951	0.2735
CATPENP1	1	0.097112	0.144149	0.6737	0.5005
CATPENP2	1	-0.125479	0.215645	-0.5819	0.5607

Number of cigarettes smoked (per day) at followup interview,
adjusted for number of cigarettes smoked at initial interview,
duration of gestation at both interviews, and maternal charac-
teristics at registration into study

		SSE	85176.79	F RATIO	2012.21
		DPE	4641	PROB>F	0.0001
		MSE	18.353111	R-SQUARE	0.6843
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	0.408981	0.935793	0.4370	0.6621
WICCAT1	1	0.195826	0.175085	1.1185	0.2634
WICCAT2	1	-0.059481	0.325529	-0.1827	0.8550
GESTT1	1	-0.0060702	0.001588618	-3.8211	0.0001
MONSMOKE	1	0.871627	0.008694946	100.2452	0.0001
GESTT2	1	0.003393818	0.004012139	0.8459	0.3977

^aSee Table V-D-1 for specification of covariates.

Table V-D-2.2

Multiple Regression Analyses of Alcohol Consumption^a

Number of ounces of ethanol consumed (per week) at initial interview,
adjusted for duration of gestation at registration

		SSE	4681.244	F RATIO	0.49
		DPE	4677	PROB>F	0.6946
		MSE	1.000907	R-SQUARE	0.0003
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	0.170278	0.055761	3.0537	0.0023
WICCAT1	1	-0.039975	0.040737	-0.9813	0.3265
WICCAT2	1	-0.033897	0.075787	-0.4473	0.6547
GESTT1	1	0.0002849557	0.0003586698	0.7945	0.4270

Number of ounces of ethanol consumed (per week) at initial interview,
further adjusted for other maternal characteristics

		SSE	4592.211	F RATIO	3.05
		DPE	4650	PROB>F	0.0001
		MSE	0.987572	R-SQUARE	0.0193
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	0.087592	0.147561	0.5936	0.5528
NOVISIT1	1	0.006190144	0.009491785	0.6522	0.5143
WICCAT1	1	-0.093606	0.045151	-2.0732	0.0382
WICCAT2	1	-0.048264	0.075896	-0.6359	0.5249
GESTT1	1	0.0002270094	0.0003876334	0.5856	0.5582
BOHAGE	1	0.008201214	0.003227578	2.5410	0.0111
CATHEMP1	1	0.103124	0.044712	2.3064	0.0211
CATHEMP2	1	0.116310	0.038172	3.0470	0.0023
CATPDST	1	0.063279	0.035007	1.8076	0.0707
MARITAL	1	-0.132429	0.050389	-2.6281	0.0086
LIVWPA1	1	0.107370	0.050497	2.1263	0.0335
CATPED3	1	0.050839	0.058520	0.8688	0.3850
CATINCA	1	-0.014455	0.041891	-0.3451	0.7301
BOHED	1	-0.00451959	0.008535747	-0.5295	0.5965
CATHOCC1	1	0.400883	0.121640	3.2957	0.0010
CATHOCC2	1	-0.025345	0.037692	-0.6724	0.5013
CATHOCC3	1	-0.052264	0.084692	-0.6171	0.5372
CATHOCC4	1	0.001716186	0.040241	0.0426	0.9660
CATETH1	1	-0.104462	0.044334	-2.3562	0.0185
CATETH2	1	0.122987	0.037384	3.2898	0.0010
CATETH3	1	-0.037368	0.088175	-0.4238	0.6717
APDC	1	-0.028885	0.044703	-0.6462	0.5182
HEIDICAD	1	0.008692862	0.038714	0.2245	0.8223
INCOME	1	-0.000892524	0.0003925404	-0.2274	0.8201
FATED	1	-0.00782208	0.008023941	-0.9748	0.3297
CATPOCC1	1	-0.138702	0.073348	-1.8910	0.0587
CATPOCC2	1	-0.031281	0.039220	-0.7976	0.4252
CATPOCC3	1	0.040665	0.074440	0.5463	0.5849
CATPOCC4	1	-0.00951851	0.047793	-0.1992	0.8421
CATPEMP1	1	0.036965	0.033585	1.1006	0.2711
CATPEMP2	1	-0.00702849	0.050283	-0.1398	0.8888

Table V-D-2.2 (continued)

Number of ounces of ethanol consumed (per week) at followup interview,
adjusted for number of cigarettes smoked at initial interview, and
duration of gestation at both interviews

		SSE	1240.225	F RATIO	78.64
		DPE	4675	PROB>F	0.0001
		RSE	0.265289	R-SQUARE	0.0776
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T-RATIO	PROB> T
INTERCEPT	1	-0.143655	0.111492	-1.2885	0.1976
WICCAT1	1	-0.032199	0.020978	-1.5349	0.1249
WICCAT2	1	0.024057	0.039037	0.6163	0.5378
GESTT1	1	0.0002868152	0.0001903019	1.5072	0.1318
EALC1	1	-0.147577	0.007528850	-19.6015	0.0001
GESTT2	1	0.0006070039	0.0004789523	1.2674	0.2051

Number of ounces of ethanol consumed (per week) at followup interview,
adjusted for number of cigarettes smoked at initial interview, duration
of gestation at both interviews, and maternal characteristics at
registration into study

		SSE	1215.293	F RATIO	15.45
		DPE	4648	PROB>F	0.0001
		RSE	0.261466	R-SQUARE	0.0961
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T-RATIO	PROB> T
INTERCEPT	1	-0.344335	0.131102	-2.6265	0.0087
EALC1	1	0.141090	0.007556415	18.6715	0.0001
GESTT2	1	0.0008544528	0.0004935539	1.7312	0.0835
NOVISIT2	1	-0.00215177	0.002495232	-0.8624	0.3885
WICCAT1	1	0.023626	0.021760	1.0857	0.2777
WICCAT2	1	0.023077	0.039054	0.5909	0.5546
GESTT1	1	0.0002623926	0.0001963151	1.3366	0.1814
MONAGE	1	0.005900651	0.001661304	3.5518	0.0004
CATHEMP1	1	-0.00809138	0.023027	-0.3514	0.7253
CATHEMP2	1	0.065551	0.019674	3.3319	0.0009
CATPDST	1	-0.063111	0.018017	-3.5029	0.0005
MARITAL	1	-0.051479	0.025948	-1.9839	0.0473
LIVWPAT	1	0.029923	0.025994	1.1512	0.2497
CATPED3	1	0.082264	0.030105	2.7326	0.0063
CATINC4	1	-0.022013	0.021543	-1.0218	0.3069
MONED	1	0.002898353	0.004390751	0.6601	0.5092
CATHOCC1	1	-0.081332	0.062675	-1.2977	0.1945
CATHOCC2	1	-0.000352058	0.019388	-0.0182	0.9855
CATHOCC3	1	-0.00669711	0.043572	-0.1537	0.8779
CATHOCC4	1	-0.031783	0.020712	-1.5345	0.1250
CATETH1	1	-0.041917	0.022843	-1.8350	0.0666
CATETH2	1	0.023118	0.019208	1.2035	0.2288
CATETH3	1	0.041250	0.045376	0.9091	0.3634
APDC	1	-0.019984	0.023004	-0.8687	0.3851
MEDICAID	1	0.018418	0.019945	0.9234	0.3558
INCOME	1	0.0003047041	0.0002019974	1.5085	0.1315
PATED	1	-0.00408605	0.004128751	-0.9897	0.3224
CATPOCC1	1	0.005782401	0.037758	0.1531	0.8783
CATPOCC2	1	0.006924007	0.020180	0.3431	0.7315
CATPOCC3	1	-0.00314151	0.038314	-0.0820	0.9347
CATPOCC4	1	0.0006839497	0.024575	0.0278	0.9778
CATPEMP1	1	-0.000340525	0.017273	-0.0197	0.9843
CATPEMP2	1	-0.015155	0.025846	-0.5864	0.5577

^aSee Table V-D-1 for specification of covariates.

Table V-E-1

Covariates Used in Regression Analyses of Duration of Gestation and Newborn Anthropometry

Variable Name	Variable Definition and Units	Mean	Standard Deviation
WIC	WIC at registration = 1, Others = 0	0.80 ^a	
BABYSEX	Male = 1, Female = 0	0.509	
GESTT1	Duration of Gestation at Initial Interview (d)	122.3	37.07
MOMAGE	Mother's Age (y)	22.2	4.9
PARITY	Parity (n)	0.97	1.19
MOMHT	Mother's Height (cm)	161.6	6.9
MOMSMOKE	Cigarettes Smoked/Day by Mother, Initial Interview (n)	4.2	7.2
EALC1	Ethanol Ingested/Week, Initial Interview (oz)	0.16	0.81
HRSWORK1	Hours Mother Works/Week, Initial Interview (hr)	4.7	11.6
EXERT1	Physical Work Required at Mother's Work, Initial Interview, Heavy = 1, Moderate = 2, Little = 3	2.9	
HRSFEET1	Mother's Time on Feet at Work, Initial Interview, Most = 1, Part = 2, Little = 3, None = 4	3.6	
PREMIES	Number of Previous Low Birthweight Infants (n)	0.17	0.54
STILBORN	Previous Stillborn Infant = 1, None = 0	0.01	
MARITAL	Mother Married = 1, vs. Not Married = 0	0.47	
MOMED	Years of Education, Mother (y)	10.9	2.1
CATMOCC1	Mother: Farmworker = 1, vs. Physical Labor, Service, Manufacturing = 0	0.017	
CATMOCC2	Mother: Sales Worker, Skilled Trade Clerical = 1, vs. Physical Labor, Service, Manufacturing = 0	0.250	
CATMOCC3	Mother: Professional Worker = 1, vs. Physical Labor, Service, Manufacturing = 0	0.035	
CATMOCC4	Mother: Has Never Worked = 1, vs. Physical Labor, Service, Manufacturing = 0	0.234	
CATETH1	White Hispanic = 1, vs. White Nonhispanic = 0	0.158	
CATETH2	Black = 1, vs. White Nonhispanic = 0	0.317	
CATETH3	Other Ethnicity = 1, vs. White Nonhispanic = 0	0.034	
AFDC	Mother on AFDC = 1, Others = 0	0.184	
MEDICAID	Mother on Medicaid = 1, Others = 0	0.247	
INCOME	Yearly Income (dollars/100)	73.6	41.3
CATINC4	Income Missing = 1, Not Missing = 0	0.158	

(continued)

Table V-E-1 (continued)

Variable Name	Variable Definition and Units	Mean	Standard Deviation
HHSIZE	Household Size (n)	3.9	1.94
FATED	Years of Education, Father (y)	11.2	2.1
CATFATED	Father's Education Missing = 1, Not Missing = 0	0.084	
CATFOCC1	Father: Farm Worker = 1, vs. Physical Labor, Service, Manufacturing = 0	0.049	
CATFOCC2	Father: Sales Worker, Skilled Trade, Clerical = 1, vs. Physical Labor, Service = 0	0.188	
CATFOCC3	Father: Professional Worker = 1, vs. Physical Labor, Service, Manufacturing = 0	0.045	
CATFOCC4	Father: Never Worked = 1, vs. Physical Labor, Service, Manufacturing = 0	0.167	
CATFEMP1	Father Employed = 1, vs. Unemployed = 0	0.361	
CATFEMP2	Father Retired, In Jail, Deceased = 1, vs. Unemployed = 0	0.150	
CATMEMP1	Mother Employed = 1, vs. housewife, student, disabled = 0	0.160	
CATMEMP2	Mother Unemployed = 1, vs. housewife, student, disabled = 0	0.271	
CATFDST	Mother Gets Food Stamps = 1, Others = 0	0.429	
XTRI1RND	Mean Triceps Skinfold, Initial Interview (mm)	20.59	8.92
XSUB1RND	Mean Subscapular Skinfold (mm) Initial Interview	17.60	8.13
MISSKIN	Triceps and Subscapular Skinfolts at Initial Interview Missing = 1, Not missing = 0	0.013	
HGB1	Initial Hemoglobin (g/dl)	12.34	1.05
MISHGB	Initial Hemoglobin Missing = 1, Not Missing = 0	0.163	
GESTDELV	Gestation at Delivery (d) ^b	276.7	19.9
XTRI2	Mean Triceps Skinfold (mm) at Followup Interview ^c	22.07	8.90
XSUB2	Mean Subscapular Skinfold (mm) at Followup Interview ^c	20.46	8.50
HGB2	Final Hemoglobin (g/dl) ^c	12.15	1.32
MOMWTO	Mother's Weight at Conception (kg)	61.4	14.5
MISMOMW	Mother's Weight at Conception Missing = 1, Not Missing = 0	0.017	
MOMWT1	Mother's Weight at Initial Interview (kg)	65.40	15.15
MOMWT2	Mother's Weight at Followup Interview (kg) ^c	72.4	14.7
MISMW2	Mother's Weight at Followup Interview Missing = 1, Others = 0 ^c	0.016	

(continued)

Table V-E-1 (continued)

Variable Name	Variable Definition and Units	Mean	Standard Deviation
GESTT2	Duration of Gestation at Followup Interview (d) ^c	235.5	16.9
VOMIT	Number of Days of Severe Vomiting (d) ^c	27.1	46.8
NAUSEA	Number of Days of Severe Nausea (d) ^c	20.3	40.9
T2PICA	Pica Prior to Followup = 1, Others = 0 ^c	0.020	
T2SMOKE	Number of Cigarettes/Day at Followup Interview (n) ^c	4.2	7.6
EALC2	Ethanol Ingested/Week at Followup Interview (oz) ^c	0.08	0.51
HRSWORK2	Hours Mother Works/Week at Followup Interview (hr) ^c	2.7	9.2
EXERT2	Physical Work Required at Mother's Work, Followup Interview, Heavy = 1, Moderate = 2, Little = 3 ^c	2.9	
HRSFEET2	Mother's Time on Feet at Work, Followup Interview, Most = 1, Part = 2, Little = 3, None = 4 ^c	3.8	
NUT101	Energy Intake at Initial Interview (kcal) ^c	2007	814
NUT201	Energy Intake at Followup Interview (kcal) ^c	2018	741
MISNUT	Dietary Interview Missing at Initial and/or Followup Interviews = 1, Not Missing = 0 ^c	0.26	
NOVISIT2	Number of Prenatal Care Visits at Followup Interview (n) ^c	7.0	3.2

^aFor dichotomous variables, mean = proportion of subjects scored 1, i.e., WICCAT1 of 0.796 = 79.6% of women were in the control WIC sample.

^bIncluded only in Regression Models adjusted for Gestation at Delivery.

^cIncluded only in Regression Models with available followup data.

Table V-E-2.1

Multiple Regression Analyses of Birthweight^aBirthweight (g) adjusted for sex and ethnicity

		SSE	1147090151	F RATIO	21.55
		DPE	3775	PROB>F	0.0001
		MSE	303864.9	R-SQUARE	0.0331
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	3285.021	36.674965	89.5712	0.0001
CATETH1	1	-21.136070	26.063207	-0.8110	0.4174
CATETH2	1	-170.910220	20.465240	-8.3512	0.0001
CATETH3	1	6.117416	50.099659	0.1221	0.9028
WIC	1	-4.135548	22.684804	-0.1823	0.8553
GESTT1	1	-0.275551	0.243101	-1.1335	0.2571
BABYSEX	1	126.200802	17.936263	7.0361	0.0001

Birthweight (g) adjusted for sex, ethnicity, sociodemographic, and maternal characteristics at registration into study

		SSE	1015331913	F RATIO	15.37
		DPE	3740	PROB>F	0.0001
		MSE	271479.1	R-SQUARE	0.1442
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	1473.504	256.863402	5.7365	0.0001
CATETH1	1	-53.236015	28.443487	-1.8716	0.0613
CATETH2	1	-197.256228	22.598365	-8.7288	0.0001
CATETH3	1	13.361622	48.699158	0.2744	0.7838
WIC	1	-8.944395	22.192124	-0.4030	0.6869
GESTT1	1	-0.364074	0.244768	-1.4874	0.1370
BABYSEX	1	124.508483	17.091905	7.2846	0.0001
AGE	1	1.913127	2.517841	0.7598	0.4474
PARITY	1	43.053034	11.082177	3.8849	0.0001
MONWT0	1	-1.007366	1.662483	-0.6059	0.5446
MONHT0	1	-95.944930	68.105294	-1.4088	0.1590
MONHT	1	8.868701	1.385980	6.3989	0.0001
MONSMOKE	1	-14.000396	1.279611	-10.9411	0.0001
EALC1	1	-13.084600	10.728998	-1.2196	0.2227
HRSWORK1	1	-3.876865	1.745797	-2.2207	0.0264
EXERT1	1	-31.764774	37.485254	-0.8474	0.3968
HRSPEET1	1	43.015525	22.260099	1.9324	0.0534
PREMIES	1	-121.473934	17.707482	-6.8600	0.0001
STILBORN	1	-35.321109	68.789958	-0.5135	0.6077
MARITAL	1	46.682702	21.915781	2.1301	0.0332
MONED	1	-8.495035	5.255263	-1.6165	0.1061
CATHOCC1	1	-79.656655	70.467422	-1.1304	0.2584
CATHOCC2	1	31.739271	22.024478	1.4411	0.1496
CATHOCC3	1	39.812477	49.012738	0.8123	0.4167
CATHOCC4	1	-9.634987	23.790999	-0.4050	0.6855
APDC	1	8.287410	25.526992	0.3247	0.7455
MEDICAID	1	-10.812390	22.131929	-0.4885	0.6252
INCOME	1	0.117906	0.233521	0.5049	0.6137
CATINC4	1	52.205216	24.702243	2.1134	0.0346
HHSIZE	1	3.080398	5.015008	0.6142	0.5391
FATED	1	0.905268	4.944108	0.1831	0.8547
CATPED3	1	-8.149176	33.548445	-0.2429	0.8081
CATFOCC1	1	70.907186	42.969404	1.6502	0.0990
CATFOCC2	1	-3.792600	23.047576	-0.1646	0.8693
CATFOCC3	1	31.575687	43.996287	0.7177	0.4730
CATFOCC4	1	-47.330153	27.613010	-1.7141	0.0866
CATFEMP1	1	-4.859104	19.602834	-0.2479	0.8042
CATFEMP2	1	-1.314396	28.934392	-0.0454	0.9638
CATHEMP1	1	217.327463	73.895242	2.9410	0.0033
CATHEMP2	1	-11.290455	22.020388	-0.5127	0.6082
MONWT1	1	6.497924	1.613650	4.0268	0.0001
CATFDST	1	-4.488139	20.555244	-0.2183	0.8272

^aSee Table V-E-1 for specification of covariates.

Table V-E-2.2

Multiple Regression Analyses of Head Circumference^aHead circumference (cm) adjusted for sex and ethnicity

		SSE	10156.8	F RATIO	29.28
		DPE	3222	PROB>F	0.0001
		MSE	3.152326	R-SQUARE	0.0517
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	33.897021	0.127939	264.9473	0.0001
CATETH1	1	-0.031170	0.093318	-0.3340	0.7384
CATETH2	1	-0.570859	0.071496	-7.9845	0.0001
CATETH3	1	-0.160692	0.179618	-0.8946	0.3710
WIC	1	0.176708	0.078439	2.2528	0.0243
GESTT1	1	-0.00148042	0.0008513516	-1.7389	0.0821
BABYSEX	1	0.625204	0.062511	10.0015	0.0001

Head circumference adjusted for sex, ethnicity, sociodemographic and maternal characteristics at registration into study

		SSE	9389.083	F RATIO	10.94
		DPE	3187	PROB>F	0.0001
		MSE	2.946057	R-SQUARE	0.1234
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	29.722061	0.914555	32.4989	0.0001
CATETH1	1	-0.088384	0.104795	-0.8434	0.3991
CATETH2	1	-0.587527	0.080207	-7.3252	0.0001
CATETH3	1	-0.077180	0.177558	-0.4347	0.6638
WIC	1	0.200885	0.078541	2.5577	0.0106
GESTT1	1	-0.00186604	0.0008796437	-2.1214	0.0340
BABYSEX	1	0.598069	0.061039	9.7981	0.0001
MOMAGE	1	0.002406217	0.009071059	0.2653	0.7908
PARITY	1	0.115142	0.039717	2.8990	0.0038
MOMWT0	1	-0.00380886	0.005858316	-0.6502	0.5156
MISMOMW	1	-0.208842	0.241036	-0.8664	0.3863
MOMHT	1	0.020722	0.004941484	4.1936	0.0001
MOMSMOKE	1	-0.025521	0.004451496	-5.7331	0.0001
EALC1	1	-0.00281476	0.039628	-0.0710	0.9434
BRSWORX1	1	-0.00689837	0.006269744	-1.1003	0.2713
EXERT1	1	0.024406	0.137479	0.1775	0.8591
BRSFEET1	1	0.018100	0.081793	0.2213	0.8249
PREMIES	1	-0.289781	0.063216	-4.5840	0.0001
STILBORN	1	-0.416483	0.237364	-1.7546	0.0794
MARITAL	1	0.074401	0.078375	0.9493	0.3425
MOMED	1	-0.035967	0.018698	-1.9236	0.0545
CATMOCC1	1	-0.276157	0.245312	-1.1257	0.2604
CATMOCC2	1	0.068983	0.078907	0.7729	0.4397
CATMOCC3	1	0.158424	0.175001	0.9053	0.3654
CATMOCC4	1	-0.170416	0.084616	-2.0140	0.0441
APDC	1	-0.096889	0.090695	-1.0683	0.2855
MEDICAID	1	0.044712	0.078494	0.5696	0.5690
INCOME	1	0.0009092689	0.0008318512	1.0931	0.2744
CATINC4	1	0.144808	0.067781	1.6496	0.0991
HHSIZE	1	0.007788173	0.018134	0.4295	0.6676
PATED	1	-0.00889884	0.017524	-0.5078	0.6116
CATPED3	1	-0.071782	0.121742	-0.5890	0.5559
CATFOCC1	1	0.024932	0.154003	0.1619	0.8714
CATFOCC2	1	0.067445	0.081239	0.8302	0.4065
CATFOCC3	1	0.238429	0.158708	1.5023	0.1331
CATFOCC4	1	-0.015721	0.100530	-0.1564	0.8757
CATFEMP1	1	-0.099795	0.069667	-1.4325	0.1521
CATFEMP2	1	-0.219601	0.105341	-2.0847	0.0372
CATFEMP1	1	0.301473	0.268155	1.1243	0.2610
CATFEMP2	1	-0.106869	0.078244	-1.3658	0.1721
MOMWT1	1	0.021219	0.005688072	3.7305	0.0002
CATPDST	1	0.040552	0.073202	0.5540	0.5796

^aSee Table V-E-1 for specification of covariates.

Table V-E-3.1

Duration of Gestation, Birthweight, Length, Head Circumference, and Fetal Mortality by
Whether Enrolled in the WIC Program at Initial Visit for Those Without Followup Visit for the Remainder

Perinatal Outcome	WIC Status				
	WIC at Registration		Control at Registration		
	With Followup	Without Followup	WIC at Followup	Without Followup	Control at Followup
Duration of Gestation^b					
Mean duration of gestation (d)					
Partially adjusted	-0.307	-29.235***	0.751	-23.574***	279.310
Fully adjusted	-0.159	-28.654***	0.924	-23.392***	279.141
Fully adj. w/other maternal factors at initial visit	-0.098	-28.444***	1.062	-23.042***	279.063
Duration of gestation < 33 weeks (%)					
Partially adjusted	-0.667	25.355***	-1.107	23.052***	0.969
Fully adjusted	-0.747	25.056***	-1.363	22.839***	1.070
Fully adj. w/other maternal factors at initial visit	-0.813	24.898***	-1.419	22.479***	1.142
Duration of gestation < 37 weeks (%)					
Partially adjusted	-1.802	38.164***	-3.646	26.933***	11.478
Fully adjusted	-2.479	36.561***	-3.889	26.261***	12.128
Fully adj. w/other maternal factors at initial visit	-2.614	36.228***	-3.955	25.663***	12.273
Birthweight					
Mean birthweight (g)					
w/o adjusting for duration of gestation					
Partially adjusted	6.836	-353.776***	0.522	-201.949**	3283.984
Fully adjusted	4.767	-337.850***	17.118	-183.946**	3282.956
Fully adj. w/other maternal factors at initial visit	7.690	-335.940***	22.464	-187.083**	3280.531
Adjusting for duration of gestation					
Partially adjusted	12.027	-79.771*	-5.246	14.817	3252.757
Fully adjusted	7.541	-83.233*	10.503	20.262	3255.398
Fully adj. w/other maternal factors at initial visit	10.524	-80.224*	14.738	16.933	3252.896
Birthweight < 1501 g (%)					
w/o adjusting for duration of gestation					
Partially adjusted	-0.074	5.710***	0.033	6.348***	0.408
Fully adjusted	-0.062	5.597***	-0.066	6.394***	0.412
Fully adj. w/other maternal factors at initial visit	-0.056	5.575***	-0.044	6.367***	0.410
Adjusting for duration of gestation					
Partially adjusted	-0.129	2.807***	0.094	4.051***	0.739
Fully adjusted	-0.094	2.714***	0.009	4.081***	0.724
Fully adj. w/other maternal factors at initial visit	-0.088	2.683***	0.044	4.060***	0.722

(continued)

Table V-E-3.1 (continued)

Perinatal Outcome	WIC Status				
	WIC at Registration		Control at Registration		
	With Followup	Without Followup	WIC at Followup	Without Followup	Control at Followup
Birthweight < 2501 g (%)					
w/o adjusting for duration of gestation					
Partially adjusted	-1.211	19.886***	-2.601	9.940***	6.855
Fully adjusted	-0.936	19.738***	-2.757	9.533**	6.687
Fully adj. w/other maternal factors at initial visit	-1.115	19.552***	-2.869	9.413**	6.838
Adjusting for duration of gestation					
Partially adjusted	-1.423	8.684***	-2.365	1.078	8.132
Fully adjusted	-1.052	9.069***	-2.480	0.977	7.842
Fully adj. w/other maternal factors at initial visit	-1.233	8.866***	-2.546	0.888	7.993
Birth Length (cm)					
w/o adjusting for duration of gestation					
Partially adjusted	-0.243	-2.352***	-0.002	-1.626***	50.576
Fully adjusted	-0.191	-2.172***	0.026	-1.645***	50.523
Fully adj. w/other maternal factors at initial visit	-0.174	-2.157***	0.035	-1.632***	50.509
Adjusting for duration of gestation					
Partially adjusted	-0.223	-0.728**	-0.022	-0.560	50.403
Fully adjusted	-0.178	-0.654**	0.007	-0.602	50.365
Fully adj. w/other maternal factors at initial visit	-0.163	-0.642**	0.009	-0.605	50.353
Head Circumference (cm)					
w/o adjusting for duration of gestation					
Partially adjusted	0.157	-0.904***	-0.134	-0.811***	33.973
Fully adjusted	0.191*	-0.826***	-0.071	-0.773***	33.938
Fully adj. w/other maternal factors at initial visit	0.199*	-0.821***	-0.059	-0.782***	33.932
Adjusting for duration of gestation					
Partially adjusted	0.171*	-0.273*	-0.133	-0.302	33.901
Fully adjusted	0.193*	-0.255*	-0.073	-0.297	33.881
Fully adj. w/other maternal factors at initial visit	0.199*	-0.249*	-0.065	-0.311	33.876
Fetal Mortality (20+ w) per 1000 live births and fetal deaths					
Partially adjusted	-3.551	35.797***	-10.556	64.944***	8.665
Fully adjusted	-3.500	35.232***	-12.096	64.005***	8.775
Fully adj. w/other maternal factors at initial visit	-4.277	34.511***	-13.250	63.337***	9.460

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aControl group means and differences for WIC groups and controls without followup data. Significance refers to difference from control group mean.

^bDuration of gestation not adjusted for sex.

^cSee Table V-E-1 for specification of all covariates and mediating variables.

Table V-E-3.2

Duration of Gestation, Birthweight, Length, Head Circumference,
and Fetal Mortality by Whether Enrolled in the WIC Program at Followup Visit

Perinatal Outcome	WIC Status		
	WIC at Registration	WIC at Followup	Controls at Registration Followup
Duration of Gestation			
Mean duration of gestation (d)			
Partially adjusted	-0.374	0.563	279.390
Fully adjusted	-0.282	0.524	279.317
Fully adj. w/other maternal factors at initial visit	-0.302	0.519	279.334
Fully adj. w/other maternal factors at initial and follow-up visits	0.008	0.189	279.102
Duration of gestation \leq 33 weeks (%)			
Partially adjusted	-0.567	-0.743	0.865
Fully adjusted	-0.617*	-0.796	0.909
Fully adj. w/other maternal factors at initial visit	-0.603*	-0.790	0.897
Fully adj. w/other maternal factors at initial and follow-up visits	-0.655*	-0.729	0.935
Duration of gestation \leq 37 weeks (%)			
Partially adjusted	-1.870	-3.464	11.468
Fully adjusted	-2.476	-3.587	11.960
Fully adj. w/other maternal factors at initial visit	-2.623	-3.446	12.071
Fully adj. w/other maternal factors at initial and follow-up visits	-3.002*	-2.839	12.343
Birthweight			
Mean birthweight (g)			
w/o adjusting for duration of gestation			
Partially adjusted	6.390	-2.373	3286.405
Fully adjusted	3.729	12.857	3287.749
Fully adj. w/other maternal factors at initial visit	7.350	18.143	3284.574
Fully adj. w/other maternal factors at initial and follow-up visits	5.637	23.321	3285.679
Adjusting for duration of gestation			
Partially adjusted	11.661	-6.596	3282.401
Fully adjusted	7.895	9.909	3284.564
Fully adj. w/other maternal factors at initial visit	11.937	14.992	3281.062
Fully adj. w/other maternal factors at initial and follow-up visits	7.486	23.472	3284.189
Birthweight \leq 1501 g (%)			
w/o adjusting for duration of gestation			
Partially adjusted	-0.023	0.168	0.365
Fully adjusted	0.085	0.192	0.277
Fully adj. w/other maternal factors at initial visit	0.086	0.192	0.276

(continued)

Table V-E-3.2 (continued)

Perinatal Outcome	WIC Status		
	WIC at Registration	Controls at Registration	
		WIC at Followup	Controls at Followup
Fully adj. w/other maternal factors at initial and follow-up visits	0.140	0.150	0.235
Adjusting for duration of gestation			
Partially adjusted	-0.029	0.172	0.369
Fully adjusted	0.080	0.195	0.281
Fully adj. w/other maternal factors at initial visit	0.081	0.195	0.280
Fully adj. w/other maternal factors at initial and follow-up visits	0.138	0.150	0.236
Birthweight \leq 2501 g (%)			
w/o adjusting for duration of gestation			
Partially adjusted	-1.235	-2.422	6.825
Fully adjusted	-1.014	-2.553	6.655
Fully adj. w/other maternal factors at initial visit	-1.127	-2.558	6.746
Fully adj. w/other maternal factors at initial and follow-up visits	-1.173	-2.581	6.783
Adjusting for duration of gestation			
Partially adjusted	-1.419	-2.275	6.965
Fully adjusted	-1.163	-2.447	6.769
Fully adj. w/other maternal factors at initial visit	-1.292	-2.445	6.872
Fully adj. w/other maternal factors at initial and follow-up visits	-1.237	-2.586	6.835
Birth Length (cm)			
w/o adjusting for duration of gestation			
Partially adjusted	-0.262	-0.022	50.600
Fully adjusted	-0.194	0.017	50.544
Fully adj. w/other maternal factors at initial visit	-0.183	0.022	50.535
Fully adj. w/other maternal factors at initial and follow-up visits	-0.179	0.040	50.532
Adjusting for duration of gestation			
Partially adjusted	-0.240	-0.031	50.584
Fully adjusted	-0.180	0.008	50.534
Fully adj. w/other maternal factors at initial visit	-0.166	0.014	50.522
Fully adj. w/other maternal factors at initial and follow-up visits	-0.175	0.052	50.528
Head Circumference (cm)			
w/o adjusting for duration of gestation			
Partially adjusted	0.154	-0.140	33.983
Fully adjusted	0.174*	-0.069	33.963
Fully adj. w/other maternal factors at initial visit	0.184*	-0.061	33.954
Fully adj. w/other maternal factors at initial and follow-up visits	0.189*	-0.048	33.950
Adjusting for duration of gestation			
Partially adjusted	0.166	-0.137	33.973
Fully adjusted	0.179*	-0.070	33.959
Fully adj. w/other maternal factors at initial visit	0.190*	-0.062	33.950
Fully adj. w/other maternal factors at initial and follow-up visits	0.190*	-0.040	33.949

(continued)

Table V-E-3.2 (continued)

Perinatal Outcome	WIC Status		
	WIC at Registration	Controls at Registration	
		WIC at Followup	Controls at Followup
Fetal Mortality (20+ weeks) per 1000 live births and fetal deaths			
Partially adjusted	-3.970	-10.259	9.086
Fully adjusted	-4.466	-11.009	9.521
Fully adj. w/other maternal factors at initial visit	-4.448	-11.583	9.536
Fully adj. w/other maternal factors at initial and follow-up visits	-4.228	-10.756	9.318

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Control group means and differences for WIC groups. Significance refers to difference from control group mean.

^b Duration of gestation not adjusted for sex.

^c See Table V-E-1 for specification of all covariates and mediating variables.

Table V-E-4.1

Perinatal Outcomes by WIC Status at Registration^a and Maternal Age

Maternal Age (yrs)	Partially adjusted ^b		Fully adjusted ^c	
	WIC	Control	WIC	Control
Duration of Gestation (d)				
<18	-4.4537	279.7634	-4.5073	282.5372
18-19	-1.5903	279.8739	-1.0279	281.0240
20-29	-0.7625	278.9004	-0.4264	279.6604
>29	3.5163	274.3859	4.4788	275.5425
	MSE = 454.3254		MSE = 446.982	
Duration of Gestation < 33 Weeks				
<18	0.0214	0.0150	0.0229	0.0039
18-19	-0.0149	0.0369	-0.0181	0.0343
20-29	-0.0071	0.0246	-0.0090	0.0238
>29	-0.0154	0.0399	-0.0202	0.0332
	MSE = 0.03132458		MSE = 0.03108589	
Duration of Gestation < 37 Weeks				
<18	0.0071	0.1355	0.0029	0.1139
18-19	-0.0061	0.1176	-0.0139	0.1080
20-29	0.0102	0.0966	-0.0003	0.0930
>29	-0.0369	0.1384	-0.0547	0.1247
	MSE = 0.1185351		MSE = 0.1167651	
Birthweight (g)				
w/o Adjusting for Duration of Gestation				
<18	-72.2036	3324.2752	-104.8950	3430.9579
18-19	-33.1327	3298.6553	-31.7540	3360.4109
20-29	-9.2668	3323.2868	-11.0390	3331.7808
>29	47.8841	3396.2214	63.7794	3315.8545
	MSE = 301535.8		MSE = 271274.7	
Adjusting for Duration of Gestation				
<18	-16.8978	3288.9674	-52.6544	3361.5387
18-19	3.6829	3245.3195	-3.0165	3292.6443
20-29	3.3807	3286.4020	-3.2974	3282.1962
>29	-34.0363	3454.4071**	-24.9512	3350.1426
	MSE = 248519.1		MSE = 223808.4	
Birthweight < 1501 g				
w/o Adjusting for Duration of Gestation				
<18	0.0105	-0.0015	0.0111	0.0015
18-19	0.0021	0.0102	0.0028	0.0116
20-29	-0.0044	0.0103	-0.0052	0.0104
>29	-0.0116	0.0224	-0.0136	0.0217
	MSE = 0.00966996		MSE = 0.009688706	
Adjusting for Duration of Gestation				
<18	0.0039	0.0027	0.0046	0.0102
18-19	-0.0023	0.0166	-0.0008	0.0201
20-29	-0.0059	0.0146	-0.0061	0.0166
>29	-0.0018	0.0155	-0.0025	0.0174
	MSE = 0.008924824		MSE = 0.008945446	
Birthweight < 2501 g				
w/o Adjusting for Duration of Gestation				
<18	-0.0001	0.0478	0.0109	0.0306
18-19	0.0183	0.0495	0.0213	0.0423
20-29	-0.0010	0.0688	-0.0020	0.0659
>29	0.0319	0.0414	0.0237	0.0459
	MSE = 0.07029423		MSE = 0.06874822	

(continued)

Table V-E-4.1 (continued)

Maternal Age (yrs)	Partially adjusted ^b		Fully adjusted ^c	
	WIC	Control	WIC	Control
Adjusting for Duration of Gestation				
<18	-0.0242	0.0632	-0.0125	0.0617
18-19	0.0022	0.0729	0.0084	0.0727
20-29	-0.0066	0.0849	-0.0055	0.0882
>29	0.0677 *	0.0160*	0.0635 *	0.0306*
	MSE = 0.06015982		MSE = 0.05922469	
Infant Length (cm)				
w/o Adjusting for Duration of Gestation				
<18	-0.3160	50.7278	-0.3535	50.8613
18-19	-0.2080	50.5834	-0.1178	50.6211
20-29	-0.3038	50.6252	-0.2274	50.4653
>29	-0.0106	51.0940	0.2115	50.6591
	MSE = 13.06219		MSE = 12.26127	
Adjusting for Duration of Gestation				
<18	-0.0107	50.5306	-0.0609	50.4620
18-19	-0.0725	50.3201	-0.0205	50.2662
20-29	-0.1798	50.3700	-0.1365	50.1587
>29	-0.3743	51.2680*	-0.1876	50.7364
	MSE = 11.33173		MSE = 10.69044	
Infant Head Circumference (cm)				
w/o Adjusting for Duration of Gestation				
<18	-0.0020	33.9621	-0.0410	34.2038
18-19	0.3565 *	33.7743	0.4046 *	33.8866
20-29	0.1594	34.0890	0.1860 *	34.0780
>29	-0.1155	34.5957*	-0.0628	34.3063
	MSE = 3.177587		MSE = 2.992281	
Adjusting for Duration of Gestation				
<18	0.1323	33.8691	0.0876	34.0364
18-19	0.4124 **	33.6723	0.4378 **	33.7580
20-29	0.2044 *	33.9724	0.2107 *	33.9413
>29	-0.3071	34.7119***	-0.2895	34.3855*
	MSE = 2.827442		MSE = 2.679298	
Stillbirth/1000 Births				
<18	0.0070	-0.0010	0.0066	-0.0106*
18-19	-0.0050	0.0101	-0.0058	0.0063
20-29	-0.0092	0.0191	-0.0094	0.0193
>29	0.0228	-0.0014	0.0250 *	-0.0001
	MSE = 0.0103302		MSE = 0.01028718	

Maternal Age (yrs)	WIC	Control	Total
Duration of Gestation			
<18	500	90	590
18-19	617	183	800
20-29	1,748	545	2,293
>29	272	89	361
Total	3,137	907	4,044
Birthweight			
<18	479	86	565
18-19	599	175	774
20-29	1,684	522	2,206
>29	259	86	345
Total	3,021	869	3,890

(continued)

Table V-E-4.1 (continued)

Maternal Age (yrs)	WIC	Control	Total
Infant Length			
<18	431	82	513
18-19	575	166	741
20-29	1,584	493	2,077
>29	244	81	325
Total	2,834	822	3,656
Infant Head Circumference			
<18	384	77	461
18-19	522	151	673
20-29	1,411	493	1,904
>29	219	70	289
Total	2,536	791	3,327
Stillbirths/1000 Births			
<18	507	90	597
18-19	629	188	817
20-29	1,778	555	2,333
>29	278	90	368
Total	3,192	923	4,115

* $p < 0.05$.** $p < 0.01$.*** $p < 0.001$.^aEntries in table are means for control group and difference from control group mean for WIC group.^bControlled for ethnicity and duration of gestation at registration into study.^cControlled for duration of gestation and maternal characteristics at registration into study. See Appendix V-E-1 for full covariate list.

Table V-E-4.2

Perinatal Outcomes by WIC Status at Registration^a and Parity

Parity	Partially adjusted ^b		Fully adjusted ^c	
	WIC	Control	WIC	Control
Duration of Gestation (d)				
1-2	0.8051	277.6199	1.3134	278.6459
0	-3.1209 **	280.5589*	-2.9433 *	281.2889
>2	1.0109	275.0158	2.1374	278.8139
	MSE = 454.2778		MSE = 446.6988	
Duration of Gestation < 33 Weeks				
1-2	-0.0126	0.0268	-0.0159	0.0269
0	0.0068	0.0223	0.0052	0.0215
>2	-0.0373	0.0615	-0.0406	0.0417
	MSE = 0.03129288		MSE = 0.03105099	
Duration of Gestation < 37 Weeks				
1-2	-0.0202	0.1133	-0.0345	0.1086
0	0.0234	0.0975	0.0186	0.0905
>2	0.0114	0.1570	-0.0042	0.1233
	MSE = 0.1181983		MSE = 0.1165384	
Birthweight (g)				
w/o Adjusting for Duration of Gestation				
1-2	-8.3421	3329.3522	-7.2692	3338.4139
0	-47.7850	3318.0198	-49.5311	3350.1623
>2	50.0248	3352.4570	96.7794	3327.0977
	MSE = 302120		MSE = 271783.7	
Adjusting for Duration of Gestation				
1-2	-12.6156	3313.1655	-16.8311	3304.7818
0	-12.5717	3265.0886	-19.1174	3282.8747
>2	46.0476	3361.1045	81.5169	3289.7555
	MSE = 248650.9		MSE = 224186	
Birthweight < 1501 g				
w/o Adjusting for Duration of Gestation				
1-2	-0.0016	0.0111	-0.0026	0.0116
0	0.0016	0.0062	0.0019	0.0076
>2	-0.0271 *	0.0288	-0.0284 *	0.0264
	MSE = 0.009664847		MSE = 0.009684186	
Adjusting for Duration of Gestation				
1-2	-0.0011	0.0130	-0.0014	0.0158
0	-0.0026	0.0124	-0.0019	0.0161
>2	-0.0266 *	0.0277	-0.0265 *	0.0311
	MSE = 0.008917788		MSE = 0.008938546	
Birthweight < 2501 g				
w/o Adjusting for Duration of Gestation				
1-2	0.0025	0.0655	0.0029	0.0603
0	0.0058	0.0526	0.0115	0.0514
>2	0.0052	0.0819	-0.0083	0.0671
	MSE = 0.07025551		MSE = 0.06877312	

(continued)

Table V-E-4.2 (continued)

Parity	Partially adjusted ^b		Fully adjusted ^c	
	WIC	Control	WIC	Control
Adjusting for Duration of Gestation				
1-2	0.0043	0.0725	0.0071	0.0753
0	-0.0093	0.0753	-0.0021	0.0813
>2	0.0069	0.0781	-0.0015	0.0837
	MSE = 0.06034652		MSE = 0.0593518	
Infant Length (cm)				
w/o Adjusting for Duration of Gestation				
1-2	-0.1924	50.6050	-0.1306	50.4695
0	-0.3480	50.7129	-0.2992	50.6168
>2	-0.1862	50.7657	0.2658	50.3692
	MSE = 13.08958		MSE = 12.27861	
Adjusting for Duration of Gestation				
1-2	-0.2111	50.4834	-0.1867	50.2752
0	-0.1171	50.3974	-0.0878	50.2164
>2	-0.1006	50.6726	0.2489	50.0902
	MSE = 11.36889		MSE = 10.70535	
Infant Head Circumference (cm)				
w/o Adjusting for Duration of Gestation				
1-2	0.2243 *	34.0460	0.2786 **	34.0151
0	0.0345	34.0257	0.0705	34.0667
>2	0.1382	34.3815	0.2713	34.2600
	MSE = 3.180427		MSE = 2.995775	
Adjusting for Duration of Gestation				
1-2	0.2174 *	33.9907	0.2483 *	33.9339
0	0.1262	33.8835	0.1480	33.8977
>2	0.1263	34.3853	0.2146	34.1834
	MSE = 2.82672		MSE = 2.686231	
Stillbirth/1000 Births				
1-2	-0.0004	0.0087	-0.0003	0.0065
0	-0.0077	0.0179	-0.0083	0.0203
>2	-0.0007	0.0121	0.0003	-0.0009
	MSE = 0.01034797		MSE = 0.01031605	
Parity	WIC	Control	Total	
Duration of Gestation				
1-2	1,423	413	1,836	
0	1,380	419	1,799	
>2	334	75	409	
Total	3,137	907	4,044	
Birthweight				
1-2	1,379	399	1,778	
0	1,324	402	1,726	
>2	318	68	386	
Total	3,021	869	3,890	

(continued)

Table V-E-4.2 (continued)

Parity	WIC	Control	Total
Infant Length			
1-2	1,300	374	1,674
0	1,236	383	1,619
>2	298	65	363
Total	2,834	822	3,656
Infant Head Circumference			
1-2	1,157	379	1,536
0	1,100	351	1,451
>2	279	61	340
Total	2,536	791	3,327
Stillbirths/1000 Births			
1-2	1,449	417	1,866
0	1,405	431	1,836
>2	338	75	413
Total	3,192	923	4,115

* $p < 0.05$.** $p < 0.01$.*** $p < 0.001$.^aEntries in table are means for control group and difference from control group mean for WIC group.^bControlled for ethnicity and duration of gestation at registration into study.^cControlled for duration of gestation and maternal characteristics at registration into study. See Appendix V-E-1 for full covariate list.

Table V-E-4.3

Perinatal Outcomes by WIC Status at Registration^a and Prior Low Birthweight

	Partially adjusted ^b		Fully adjusted ^c	
Prior Low Birthweight	WIC	Control	WIC	Control
Duration of Gestation (d)				
No Prior Birth	-3.1590 **	280.6424	-2.8603 *	282.1417
No Prior LBW	0.4817	279.1307	0.9427	279.9207
Prior LBW	3.4844	268.0323***	3.6214	269.8434***
	MSE = 447.5362		MSE = 444.0229	
Duration of Gestation < 33 Weeks				
No Prior Birth	0.0054	0.0230	0.0032	0.0197
No Prior LBW	-0.0048	0.0131	-0.0071	0.0118
Prior LBW	-0.0674 **	0.1162***	-0.0686 **	0.1113***
	MSE = 0.03101168		MSE = 0.03093397	
Duration of Gestation < 37 Weeks				
No Prior Birth	0.0237	0.0971	0.0172	0.0938
No Prior LBW	-0.0135	0.0963	-0.0276	0.0883
Prior LBW	-0.0294	0.2267**	-0.0365	0.1997*
	MSE = 0.1173081		MSE = 0.1162266	
Birthweight (g)				
w/o Adjusting for Duration of Gestation				
No Prior Birth	-49.9278	3314.9901	-46.3875	3391.0353
No Prior LBW	17.4190	3370.7039	13.9236	3346.7929
Prior LBW	4.6761	3124.6977**	-11.9393	3137.2589***
	MSE = 296460.9		MSE = 269808.6	
Adjusting for Duration of Gestation				
No Prior Birth	-13.5729	3262.4129	-15.4039	3316.9000
No Prior LBW	12.1731	3342.6464*	3.1003	3303.7481
Prior LBW	-13.2015	3194.0173	-29.1950	3175.3679*
	MSE = 246804.4		MSE = 223338	
Birthweight < 1501 g				
w/o Adjusting for Duration of Gestation				
No Prior Birth	0.0016	0.0064	0.0018	0.0080
No Prior LBW	-0.0012	0.0090	-0.0022	0.0088
Prior LBW	-0.0257 *	0.0347*	-0.0261 *	0.0333*
	MSE = 0.009662182		MSE = 0.00968917	
Adjusting for Duration of Gestation				
No Prior Birth	-0.0029	0.0128	-0.0021	0.0174
No Prior LBW	-0.0005	0.0124	-0.0008	0.0143
Prior LBW	-0.0235 *	0.0262	-0.0239 *	0.0285
	MSE = 0.008919373		MSE = 0.008937305	
Birthweight < 2501 g				
w/o Adjusting for Duration of Gestation				
No Prior Birth	0.0059	0.0543	0.0096	0.0482
No Prior LBW	-0.0026	0.0529	-0.0023	0.0508
Prior LBW	0.0130	0.1354*	0.0178	0.1194*
	MSE = 0.06944994		MSE = 0.06851465	

(continued)

Table V-E-4.3

Perinatal Outcomes by WIC Status at Registration^a and Prior Low Birthweight

	Partially adjusted ^b		Fully adjusted ^c	
Prior Low Birthweight	WIC	Control	WIC	Control
Duration of Gestation (D)				
No Prior Birth	-3.1590 **	280.6424	-2.8603 *	282.1417
No Prior LBW	0.4817	279.1307	0.9427	279.9207
Prior LBW	3.4844	268.0323***	3.6214	269.8434***
	MSE = 447.5362		MSE = 444.0229	
Duration of Gestation < 33 Weeks				
No Prior Birth	0.0054	0.0230	0.0032	0.0197
No Prior LBW	-0.0048	0.0131	-0.0071	0.0118
Prior LBW	-0.0674 **	0.1162***	-0.0686 **	0.1113***
	MSE = 0.03101168		MSE = 0.03093397	
Duration of Gestation < 37 Weeks				
No Prior Birth	0.0237	0.0971	0.0172	0.0938
No Prior LBW	-0.0135	0.0963	-0.0276	0.0883
Prior LBW	-0.0294	0.2267**	-0.0365	0.1997*
	MSE = 0.1173081		MSE = 0.1162266	
Birthweight (G)				
w/o Adjusting for Duration of Gestation				
No Prior Birth	-49.9278	3314.9901	-46.3875	3391.0353
No Prior LBW	17.4190	3370.7039	13.9236	3346.7929
Prior LBW	4.6761	3124.6977**	-11.9393	3137.2589***
	MSE = 296460.9		MSE = 269808.6	
Adjusting for Duration of Gestation				
No Prior Birth	-13.5729	3262.4129	-15.4039	3316.9000
No Prior LBW	12.1731	3342.6464*	3.1003	3303.7481
Prior LBW	-13.2015	3194.0173	-29.1950	3175.3679*
	MSE = 246804.4		MSE = 223338	
Birthweight < 1501 G				
w/o Adjusting for Duration of Gestation				
No Prior Birth	0.0016	0.0064	0.0018	0.0080
No Prior LBW	-0.0012	0.0090	-0.0022	0.0088
Prior LBW	-0.0257 *	0.0347*	-0.0261 *	0.0333*
	MSE = 0.009662182		MSE = 0.00968917	
Adjusting for Duration of Gestation				
No Prior Birth	-0.0029	0.0128	-0.0021	0.0174
No Prior LBW	-0.0005	0.0124	-0.0008	0.0143
Prior LBW	-0.0235 *	0.0262	-0.0239 *	0.0285
	MSE = 0.008919373		MSE = 0.008937305	
Birthweight < 2501 G				
w/o Adjusting for Duration of Gestation				
No Prior Birth	0.0059	0.0543	0.0096	0.0482
No Prior LBW	-0.0026	0.0529	-0.0023	0.0508
Prior LBW	0.0130	0.1354*	0.0178	0.1194*
	MSE = 0.06944994		MSE = 0.06851465	

(continued)

Table V-E-4.3 (continued)

	Partially adjusted ^b		Fully adjusted ^c	
Prior Low Birthweight	WIC	Control	WIC	Control
Adjusting for Duration of Gestation				
No Prior Birth	-0.0100	0.0772	-0.0043	0.0813
No Prior LBW	-0.0003	0.0651	0.0025	0.0701
Prior LBW	0.0208	0.1052	0.0255	0.1024
	MSE = 0.06004964		MSE = 0.05926538	
Infant Length (cm)				
w/o Adjusting for Duration of Gestation				
No Prior Birth	-0.3419	50.6844	-0.2596	50.7462
No Prior LBW	-0.0647	50.8279	-0.0151	50.5843
Prior LBW	-0.5071	49.6724*	-0.4638	49.5528**
	MSE = 12.87859		MSE = 12.22708	
Adjusting for Duration of Gestation				
No Prior Birth	-0.1030	50.3713	-0.0437	50.2963
No Prior LBW	-0.0975	50.6393	-0.0838	50.3376
Prior LBW	-0.4816	49.9478	-0.4544	49.7098
	MSE = 11.28176		MSE = 10.69099	
Infant Head Circumference (cm)				
w/o Adjusting for Duration of Gestation				
No Prior Birth	0.0391	34.0127	0.0842	34.1820
No Prior LBW	0.2670 *	34.1850	0.3036 **	34.0671
Prior LBW	0.1438	33.6156	0.1292	33.5768*
	MSE = 3.145368		MSE = 2.97658	
Adjusting for Duration of Gestation				
No Prior Birth	0.1348	33.8712	0.1648	34.0006
No Prior LBW	0.2607 *	34.0944	0.2734 **	33.9537
Prior LBW	0.0714	33.8103	0.0447	33.7072
	MSE = 2.817962		MSE = 2.675642	
Stillbirth/1000 Births				
No Prior Birth	-0.0086	0.0182	-0.0093	0.0173
No Prior LBW	0.0040	0.0039*	0.0043	0.0028
Prior LBW	-0.0182	0.0329	-0.0167	0.0305
	MSE = 0.01033006		MSE = 0.01030046	
Prior Low Birthweight				
	WIC	Control	Total	
Duration of Gestation				
No prior birth	1364	412	1776	
No prior low birthweight	1,378	406	1,784	
Prior low birthweight	395	89	484	
Total	3,137	907	4,044	
Birthweight				
No prior birth	1,310	395	1,705	
No prior low birthweight	1,336	391	1,727	
Prior low birthweight	375	83	458	
Total	3,021	869	3,890	

(continued)

Table V-E-4.3 (continued)

Prior Low Birthweight	WIC	Control	Total
Infant Length			
No prior birth	1,223	376	1,599
No prior low birthweight	1,265	367	1,632
Prior low birthweight	346	79	425
Total	2,834	822	3,656
Infant Head Circumference			
No prior birth	1,060	374	1,434
No prior low birthweight	1,159	347	1,506
Prior low birthweight	317	70	387
Total	2,536	791	3,327
Stillbirths/1000 Births			
No prior birth	1,389	424	1,813
No prior low birthweight	1,397	410	1,807
Prior low birthweight	406	89	495
Total	3,192	923	4,115

* $p < 0.05$.** $p < 0.01$.*** $p < 0.001$.^a Entries in table are means for control group and difference from control group mean for WIC group.^b Controlled for ethnicity and duration of gestation at registration into study.^c Controlled for duration of gestation and maternal characteristics at registration into study. See Appendix V-E-1 for full covariate list.

Table V-E-4.4

Perinatal Outcomes by WIC Status^a at Registration and Weight at Conception

Weight (kg) at Conception	Partially Adjusted ^b		Fully Adjusted ^c	
	WIC	Control	WIC	Control
Duration of Gestation (d)				
<50.35	-1.8039	277.2167	-1.4439	278.7121
50.35-63.50	-2.4866*	280.3700	-1.7701	281.3832
>63.50	1.3197	277.8295	1.8606	278.8945
	MSE = 453.6083	MSE = 446.8204		
Duration of Gestation < 33 Weeks				
<50.35	-0.0024	0.0300	-0.0049	0.0288
50.35-63.50	-0.0062	0.0231	-0.0099	0.0223
>63.50	-0.0079	0.0317	-0.0099	0.0244
	MSE = 0.03133762	MSE = 0.03110269		
Duration of Gestation < 37 Weeks				
<50.35	0.0169	0.1232	0.0092	0.1164
50.35-63.50	0.0293	0.0874	0.0158	0.0845
>63.50	-0.0387	0.1274	-0.0514*	0.1134
	MSE = 0.1183104	MSE = 0.1165555		
Birthweight (g)				
W/O Adjusting for Duration of Gestation				
<50.35	-69.4042	3184.7211***	-74.1921	3309.5065
50.35-63.50	-52.8985	3339.6590	-40.4756	3368.5812
>63.50	30.4562	3424.8569*	41.9527	3338.6820
	MSE = 289979.3	MSE = 270283.2		
Adjusting for Duration of Gestation				
<50.35	-41.9826	3164.7764**	-52.1223	3263.5353
50.35-63.50	-19.3069	3294.0853	-15.2419	3304.7752
>63.50	10.6592	3407.1736**	14.3940	3308.6896
	MSE = 240013.5	MSE = 223425.3		
Birthweight < 1501 g				
W/O Adjusting for Duration of Gestation				
<50.35	-0.0036	0.0083	-0.0037	0.0053
50.35-63.50	0.0067	0.0016	0.0062	0.0009
>63.50	-0.0157*	0.0256**	-0.0164*	0.0289**
	MSE = 0.009650795	MSE = 0.009666724		
Adjusting for Duration of Gestation				
<50.35	-0.0069	0.0108	-0.0065	0.0111
50.35-63.50	0.0026	0.0072	0.0030	0.0090
>63.50	-0.0133*	0.0278**	-0.0130*	0.0327**
	MSE = 0.008900251	MSE = 0.008922098		
Birthweight < 2501 g				
W/O Adjusting for Duration of Gestation				
<50.35	0.0245	0.0857*	0.0274	0.0705
50.35-63.50	0.0254	0.0359	0.0256	0.0311
>63.50	-0.0325	0.0752	-0.0353	0.0840*
	MSE = 0.06976296	MSE = 0.06844238		
Adjusting for Duration of Gestation				
<50.35	0.0125	0.0945	0.0176	0.0909
50.35-63.50	0.0106	0.0560	0.0144	0.0594
>63.50	-0.0238	0.0830	-0.0230	0.0973
	MSE = 0.06007612	MSE = 0.05918482		

(continued)

Table V-E-4.4 (continued)

	Partially Adjusted ^b		Fully Adjusted ^c	
Weight (kg) at Conception	WIC	Control	WIC	Control
Infant Length (cm)				
W/O Adjusting for Duration of Gestation				
<50.35	-0.4034	50.0201*	-0.3340	50.4347
50.35-63.50	-0.3059	50.6641	-0.1689	50.5692
>63.50	-0.2580	51.2440	-0.1047	50.5749
	MSE = 12.86226	MSE = 12.26727		
Adjusting for Duration of Gestation				
<50.35	-0.2505	49.9097*	-0.2188	50.2047
50.35-63.50	-0.1132	50.3907	-0.0218	50.2055
>63.50	-0.2854	51.0486	-0.1760	50.3167
	MSE = 11.21663	MSE = 10.70183		
Infant Head Circumference (cm)				
W/O Adjusting for Duration of Gestation				
<50.35	0.2319	33.4346***	0.2326	33.7448**
50.35-63.50	-0.0331	34.1925	0.0539	34.2187
>63.50	0.2154	34.3994	0.2679*	34.1188
	MSE = 3.078026	MSE = 2.978465		
Adjusting for Duration of Gestation				
<50.35	0.3106*	33.3918***	0.2970*	33.6488
50.35-63.50	0.0457	34.0732	0.1046	34.0675
>63.50	0.1788	34.3192	0.2032	34.0241
	MSE = 2.758548	MSE = 2.674436		
Stillbirth/1000 Births				
<50.35	0.0017	0.0122	0.0023	0.0151
50.35-63.50	-0.0030	0.0065	-0.0027	0.0064
>63.50	-0.0099	0.0242*	-0.0087	0.0182
	MSE = 0.01031804	MSE = 0.01029891		
WIC Status				
Weight (kg) at Conception	WIC	Control	Total	
Duration of Gestation				
<50.35	637	226	863	
50.35-63.50	1,416	411	1,827	
>63.50	1,084	270	1,354	
Total	3,137	907	4,044	
Birthweight				
<50.35	611	217	828	
50.35-63.50	1,370	395	1,765	
>63.50	1,040	257	1,297	
Total	3,021	869	3,890	
Infant Length				
<50.35	569	209	778	
50.35-63.50	1,293	368	1,661	
>63.50	972	245	1,217	
Total	1,696	822	3,656	

(continued)

Table V-E-4.4 (continued)

Weight (kg) at Conception	WIC Status		
	WIC	Control	Total
Infant Head Circumference			
<50.35	513	195	708
50.35-63.50	1,150	367	1,517
>63.50	<u>873</u>	<u>229</u>	<u>1,102</u>
Total	2,536	791	3,327
Stillbirths/1000 Births			
<50.35	654	228	882
50.35-63.50	1,435	418	1,853
>63.50	<u>1,103</u>	<u>277</u>	<u>1,380</u>
Total	3,192	923	4,115

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aEntries in table are means for Control group and differences from Control group means for WIC groups.^bControlled for ethnicity and duration of gestation at registration into study.^cControlled for duration of gestation and maternal characteristics at registration into study. See Appendix V-E-1 for full covariate list.

Table V-E-4.5

Perinatal Outcomes by WIC Status at Registration^a and Maternal Height

Maternal Height (cm)	Partially adjusted ^b		Fully adjusted ^c	
	WIC	Control	WIC	Control
Duration of Gestation (d)				
162.6-167.5	0.2400	278.5726	0.4110	279.7430
<157.5	-1.9658	278.4239	-1.7361	280.2802
157.5-162.5	-0.7832	278.8348	-0.3396	280.1556
167.6+	-1.2859	279.2022	-0.4455	279.6621
	MSE = 455.1463		MSE = 447.3543	
Duration of Gestation < 33 Weeks				
162.6-167.5	-0.0176	0.0343	-0.0195	0.0304
<157.5	-0.0093	0.0385	-0.0097	0.0351
157.5-162.5	-0.0064	0.0242	-0.0092	0.0218
167.6+	0.0070	0.0162	0.0035	0.0123
	MSE = 0.03133862		MSE = 0.0310967	
Duration of Gestation < 37 Weeks				
162.6-167.5	0.0104	0.0843	-0.0000	0.0782
<157.5	0.0388	0.0985	0.0331	0.0820
157.5-162.5	-0.0097	0.1210	-0.0197	0.1106
167.6+	-0.0219	0.1220	-0.0380	0.1212
	MSE = 0.1184905		MSE = 0.1166972	
Birthweight (g)				
w/o Adjusting for Duration of Gestation				
162.6-167.5	-93.9244	3412.6537	-94.8282 *	3416.3825
<157.5	1.1981	3197.5315***	-26.9155	3281.9583*
157.5-162.5	3.1548	3291.4728*	1.6543	3325.9798
167.6+	33.0921	3410.1561	29.2915	3393.3906
	MSE = 297189.4		MSE = 271665.6	
Adjusting for Duration of Gestation				
162.6-167.5	-95.8823 *	3387.1837	-100.3481 *	3373.8519
<157.5	27.6337	3167.9530***	-2.5704	3222.2913**
157.5-162.5	13.7782	3260.7024**	5.9616	3274.3939*
167.6+	52.9582	3372.3944	38.0351	3348.0376
	MSE = 244768.6		MSE = 223933.5	
Birthweight < 1501 g				
w/o Adjusting for Duration of Gestation				
162.6-167.5	-0.0093	0.0173	-0.0109	0.0183
<157.5	0.0035	0.0038	0.0042	0.0037
157.5-162.5	-0.0059	0.0113	-0.0061	0.0114
167.6+	0.0043	0.0087	0.0021	0.0100
	MSE = 0.009671632		MSE = 0.009695601	
Adjusting for Duration of Gestation				
162.6-167.5	-0.0091	0.0203	-0.0102	0.0237
<157.5	0.0003	0.0073	0.0012	0.0112
157.5-162.5	-0.0072	0.0150	-0.0066	0.0179
167.6+	0.0019	0.0132	0.0010	0.0157
	MSE = 0.008923395		MSE = 0.008947792	
Birthweight < 2501 g				
w/o Adjusting for Duration of Gestation				
162.6-167.5	0.0264	0.0399	0.0245	0.0419
<157.5	0.0357	0.0538	0.0456 *	0.0367
157.5-162.5	-0.0105	0.0702	-0.0095	0.0638
167.6+	-0.0272	0.0722	-0.0310	0.0775
	MSE = 0.07015348		MSE = 0.068634	

(continued)

Table V-E-4.5 (continued)

Maternal Height (cm)	Partially adjusted ^b		Fully adjusted ^c	
	WIC	Control	WIC	Control
Adjusting for Duration of Gestation				
162.6-167.5	0.0272	0.0510	0.0270	0.0608
<157.5	0.0242	0.0667	0.0348	0.0632
157.5-162.5	-0.0152	0.0836	-0.0114	0.0867
167.6+	-0.0358	0.0887	-0.0349	0.0976
	MSE = 0.06023766		MSE = 0.0592339	
Infant Length (cm)				
w/o Adjusting for Duration of Gestation				
162.6-167.5	-0.4467	50.8497	-0.4179	50.7240
<157.5	-0.2440	50.0098	-0.2955	50.1337
157.5-162.5	-0.0904	50.4197	-0.0003	50.3380
167.6+	-0.1541	51.4465	-0.1064	51.2061
	MSE = 12.85603		MSE = 12.28353	
Adjusting for Duration of Gestation				
162.6-167.5	-0.3510	50.6192	-0.3493	50.4171
<157.5	-0.0992	49.8175	-0.1663	49.7870
157.5-162.5	-0.0063	50.2255	0.0514	50.0382
167.6+	-0.0542	51.2183	-0.0675	50.9479
	MSE = 11.15896		MSE = 10.71064	
Infant Head Circumference (cm)				
w/o Adjusting for Duration of Gestation				
162.6-167.5	-0.0680	34.2495	-0.0195	34.2197
<157.5	0.2419	33.7039	0.1816	33.9127
157.5-162.5	0.2083	33.9668	0.2400 *	34.0151
167.6+	0.2383	34.3421	0.2646	34.2359
	MSE = 3.155307		MSE = 2.99514	
Adjusting for Duration of Gestation				
162.6-167.5	-0.0325	34.1486	-0.0058	34.0952
<157.5	0.3117 *	33.6244	0.2330	33.7702
157.5-162.5	0.2335 *	33.8780	0.2472 *	33.8848
167.6+	0.2600	34.2529	0.2577	34.1444
	MSE = 2.810459		MSE = 2.684435	
Stillbirth/1000 Births				
162.6-167.5	-0.0108	0.0173	-0.0106	0.0152
<157.5	-0.0118	0.0160	-0.0118	0.0165
157.5-162.5	0.0022	0.0108	0.0012	0.0114
167.6+	0.0026	0.0103	0.0031	0.0068
	MSE = 0.01034446		MSE = 0.0103117	
<hr/>				
Maternal Height (cm)	WIC	Control	Total	
<hr/>				
Duration of Gestation				
162.6-167.5	659	167	826	
<157.5	773	216	989	
157.5-162.5	1,057	330	1,387	
167.6+	648	194	842	
Total	3,137	907	4,044	
Birthweight				
162.6-167.5	637	160	797	
<157.5	752	207	959	
157.5-162.5	1,011	314	1,325	
167.6+	621	188	809	
Total	3,021	869	3,890	

(continued)

Table V-E-4.5 (continued)

Maternal Height (cm)	WIC	Control	Total
Infant Length			
162.6-167.5	604	158	762
<157.5	704	192	896
157.5-162.5	943	300	1,243
167.6+	583	172	755
Total	2,834	822	3,656
Infant Head Circumference			
162.6-167.5	527	175	702
<157.5	619	178	797
157.5-162.5	846	276	1,122
167.6+	544	162	706
Total	2,536	791	3,327
Stillbirths/1000 Births			
162.6-167.5	673	172	845
<157.5	787	219	1,006
157.5-162.5	1,077	337	1,414
167.6+	655	195	850
Total	3,192	923	4,115

* $p < 0.05$.** $p < 0.01$.*** $p < 0.001$.^a Entries in table are means for control group and difference from control group mean for WIC group.^b Controlled for ethnicity and duration of gestation at registration into study.^c Controlled for duration of gestation and maternal characteristics at registration into study. See Appendix V-E-1 for full covariate list.

Table V-E-4.6

Perinatal Outcomes by WIC Status at Registration^a and Cigarette Smoking

Cigarettes Per Day	Partially adjusted ^b		Fully adjusted ^c	
	WIC	Control	WIC	Control
Duration of Gestation (d)				
0	-1.1275	279.5652	-0.5219	280.1493
1-5	-3.7757	282.3809	-3.2897	283.5644
6-14	0.2760	275.8126	0.3892	277.8553
≥15	0.0510	277.1413	0.6562	278.8522
	MSE = 454.4186		MSE = 447.1119	
Duration of Gestation < 33 Weeks				
0	-0.0037	0.0232	-0.0078	0.0242
1-5	-0.0049	0.0188	-0.0077	0.0169
6-14	-0.0177	0.0339	-0.0168	0.0272
≥15	-0.0027	0.0390	-0.0054	0.0353
	MSE = 0.03133612		MSE = 0.0311033	
Duration of Gestation < 37 Weeks				
0	0.0139	0.0851	0.0007	0.0849
1-5	0.0047	0.0951	-0.0113	0.0906
6-14	0.0006	0.1597	-0.0042	0.1391
≥15	-0.0389	0.1466**	-0.0486	0.1279
	MSE = 0.1181947		MSE = 0.1165628	
Birthweight (g)				
w/o Adjusting for Duration of Gestation				
0	-0.8306	3421.0814	4.6824	3409.8105
1-5	-145.8278 *	3403.2081	-104.5899	3376.4980
6-14	-59.5650	3184.9332***	-68.1928	3229.5777***
≥15	-16.4897	3142.5015***	-19.4835	3152.6869***
	MSE = 288942.3		MSE = 269424.5	
Adjusting for Duration of Gestation				
0	12.4766	3384.3068	10.9456	3359.5326
1-5	-92.3667	3331.2149	-59.5441	3286.2789
6-14	-56.1942	3180.9246***	-66.4994	3195.3124***
≥15	-12.6747	3127.4555***	-23.6958	3113.0884***
	MSE = 237947.1		MSE = 221831.1	
Birthweight < 1501 g				
w/o Adjusting for Duration of Gestation				
0	-0.0059	0.0111	-0.0064	0.0124
1-5	0.0158	-0.0031	0.0155	-0.0028
6-14	-0.0026	0.0149	-0.0030	0.0145
≥15	0.0031	0.0083	0.0014	0.0085
	MSE = 0.009668729		MSE = 0.009694437	
Adjusting for Duration of Gestation				
0	-0.0075	0.0155	-0.0071	0.0187
1-5	0.0093	0.0056	0.0099	0.0085
6-14	-0.0030	0.0154	-0.0032	0.0188
≥15	0.0027	0.0102	0.0019	0.0135
	MSE = 0.008926561		MSE = 0.008946569	
Birthweight < 2501 g				
w/o Adjusting for Duration of Gestation				
0	0.0022	0.0326	0.0018	0.0378
1-5	0.0517	0.0242	0.0421	0.0369
6-14	-0.0178	0.1326***	-0.0135	0.1229***
≥15	0.0233	0.0911*	0.0201	0.0902
	MSE = 0.06920195		MSE = 0.0685767	

(continued)

Table V-E-4.6 (continued)

Cigarettes Per Day	Partially adjusted ^b		Fully adjusted ^c	
	WIC	Control	WIC	Control
Adjusting for Duration of Gestation				
0	-0.0036	0.0486	-0.0010	0.0602
1-5	0.0284	0.0556	0.0220	0.0770
6-14	-0.0193	0.1343***	-0.0142	0.1381**
≥15	0.0216	0.0976	0.0220	0.1078
	MSE = 0.05950024		MSE = 0.05917995	
Infant Length (cm)				
w/o Adjusting for Duration of Gestation				
0	-0.0135	51.0597	0.0960	50.7564
1-5	-1.1065 *	51.1306	-0.7817	50.6759
6-14	-0.4971	50.0366**	-0.5006	50.0508
≥15	-0.7783 *	50.0030**	-0.7452	49.8285*
	MSE = 12.66543		MSE = 12.22469	
Adjusting for Duration of Gestation				
0	0.0736	50.8317	0.1450	50.4679
1-5	-0.7753	50.7190	-0.5042	50.1692
6-14	-0.4045	49.9450*	-0.4113	49.7863
≥15	-0.7301 *	49.8625**	-0.7474 *	49.5662**
	MSE = 11.00098		MSE = 10.64655	
Infant Head Circumference (cm)				
w/o Adjusting for Duration of Gestation				
0	0.1626	34.2779	0.2261 *	34.2090
1-5	-0.0237	34.1682	0.0587	34.1065
6-14	-0.0414	33.7486**	-0.0326	33.8482
≥15	0.2881	33.6385***	0.2559	33.6814**
	MSE = 3.129719		MSE = 2.977208	
Adjusting for Duration of Gestation				
0	0.1907 *	34.1816	0.2272 **	34.0958
1-5	0.1039	33.9925	0.1562	33.9037
6-14	0.0141	33.6901**	0.0144	33.7198*
≥15	0.3020	33.5818***	0.2539	33.5672**
	MSE = 2.790208		MSE = 2.667699	
Stillbirth/1000 Births				
0	-0.0013	0.0102	-0.0020	0.0094
1-5	0.0074	-0.0008	0.0090	-0.0036
6-14	-0.0096	0.0228	-0.0083	0.0213
≥15	-0.0183	0.0247	-0.0186	0.0230
	MSE = 0.01034322		MSE = 0.01030792	
<hr/>				
Cigarettes per day	WIC	Control	Total	
<hr/>				
Duration of Gestation				
0	2,035	569	2,604	
1-5	275	91	366	
6-14	464	124	588	
≥15	363	123	486	
Total	3,137	907	4,044	
Birthweight				
0	1,958	548	2,506	
1-5	267	85	352	
6-14	446	119	565	
≥15	350	117	467	
Total	3,021	869	3,890	

(continued)

Table V-E-4.6 (continued)

Cigarettes Per Day	WIC	Control	Total
Infant Length			
0	1,825	522	2,347
1-5	254	79	333
6-14	418	110	528
≥15	337	111	448
Total	2,834	822	3,656
Infant Head Circumference			
0	1,614	508	2,122
1-5	226	72	298
6-14	375	106	481
≥15	321	105	426
Total	2,536	791	3,327
Stillbirths/1000 Births			
0	2,062	580	2,642
1-5	283	90	373
6-14	475	129	604
≥15	372	124	496
Total	3,192	923	4,115

* $p < 0.05$.

** $p < 0.01$.

*** $p < 0.001$.

^a Entries in table are means for control group and difference from control group mean for WIC group.

^b Controlled for ethnicity and duration of gestation at registration into study.

^c Controlled for duration of gestation and maternal characteristics at registration into study. See Appendix V-E-1 for full covariate list.

Table V-E-4.7

Perinatal Outcomes by WIC Status at Registration^a and Ethnicity

Ethnic group	Partially adjusted ^b		Fully adjusted ^c	
	WIC	Control	WIC	Control
Duration of Gestation (d)				
White Nonhispanic	0.0392	278.0849	0.2106	279.3459
White Hispanic	1.1580	276.5999	1.5445	278.6426
Black	-4.7596 **	276.1831 *	-3.7511 *	277.7070
Other	-3.0369	279.2309	-2.3068	280.6668
	MSE =	454.461	MSE =	446.7741
Duration of Gestation <33 Weeks				
White Nonhispanic	-0.0102	0.0293	-0.0119	0.0264
White Hispanic	-0.0187	0.0395	-0.0200	0.0339
Black	0.0127	0.0457	0.0084	0.0398
Other	0.0012	-0.0009	-0.0037	0.0013
	MSE =	0.0313262	MSE =	0.03108076
Duration of Gestation <37 Weeks				
White Nonhispanic	-0.0082	0.1182	-0.0137	0.1078
White Hispanic	-0.0090	0.1192	-0.0153	0.0967
Black	0.0308	0.1689	0.0072	0.1535
Other	0.0522	0.1035	0.0286	0.1036
	MSE =	0.1185719	MSE =	0.1167753
Birthweight (g)				
w/o Adjusting for Duration of Gestation				
White Nonhispanic	-5.2891	3318.0338	-20.7189	3356.4526
White Hispanic	-9.6979	3299.9034	-0.9863	3287.9018
Black	-42.6160	3179.9318 **	-23.1906	3167.7051 ***
Other	-61.1231	3357.2024	-43.1633	3373.3735
	MSE =	303276.2	MSE =	271464.4
Adjusting for Duration of Gestation				
White Nonhispanic	-3.8463	3295.4870	-22.0448	3314.3041
White Hispanic	-0.9971	3281.9325	5.7392	3237.0715
Black	-1.0790	3185.4472 *	2.3640	3149.8330 ***
Other	-14.0282	3320.8511	-6.1886	3311.4618
	MSE =	250416.1	MSE =	223831.4
Birthweight <1501 g				
w/o Adjusting for Duration of Gestation				
White Nonhispanic	-0.0027	0.0103	-0.0032	0.0098
White Hispanic	0.0051	0.0048	0.0071	0.0082
Black	-0.0080	0.0209	-0.0104	0.0221
Other	0.0011	-0.0010	0.0006	-0.0007
	MSE =	0.009670968	MSE =	0.009691859
Adjusting for Duration of Gestation				
White Nonhispanic	-0.0029	0.0130	-0.0030	0.0151
White Hispanic	0.0041	0.0070	0.0062	0.0146
Black	-0.0130	0.0202	-0.0136	0.0243
Other	-0.0045	0.0033	-0.0041	0.0071
	MSE =	0.008921317	MSE =	0.008940339
Birthweight < 2501 g				
w/o Adjusting for Duration of Gestation				
White Nonhispanic	0.0023	0.0635	0.0049	0.0558
White Hispanic	0.0160	0.0468	0.0207	0.0549
Black	-0.0008	0.1074	-0.0064	0.1074 *
Other	0.0222	0.0447	0.0203	0.0461
	MSE =	0.07030302	MSE =	0.06875047

(continued)

Table V-E-4.7 (continued)

Ethnic group	Partially adjusted ^b		Fully adjusted ^c	
	WIC	Control	WIC	Control
Adjusting for Duration of Gestation				
White Nonhispanic	0.0017	0.0733	0.0055	0.0745
White Hispanic	0.0122	0.0546	0.0177	0.0775
Black	-0.0188	0.1050	-0.0177	0.1153
Other	0.0018	0.0605	0.0038	0.0736
	MSE = 0.0603455		MSE = 0.05932422	
Infant Length (cm)				
w/o Adjusting for Duration of Gestation				
White Nonhispanic	-0.0204	50.5050	-0.0509	50.4697
White Hispanic	-0.0924	50.4198	0.1520	50.1087
Black	-0.9408 **	50.2871	-0.7839 **	49.9470
Other	-0.3455	50.6829	-0.1600	50.4885
	MSE = 13.06571		MSE = 12.26063	
Adjusting for Duration of Gestation				
White Nonhispanic	-0.0087	50.3584	-0.0514	50.2246
White Hispanic	-0.0683	50.3408	0.1639	49.8673
Black	-0.5743 *	50.2326	-0.5186	49.7788
Other	-0.0498	50.4749	0.0715	50.1664
	MSE = 11.36432		MSE = 10.69721	
Infant Head Circumference (cm)				
w/o Adjusting for Duration of Gestation				
White Nonhispanic	0.2113 *	34.0077	0.2093 *	34.0599
White Hispanic	0.2184	33.9827	0.2666	33.9366
Black	0.0114	33.6004 *	0.1046	33.5539 **
Other	-0.2326	34.1765	-0.1622	34.2434
	MSE = 3.195814		MSE = 2.993052	
Adjusting for Duration of Gestation				
White Nonhispanic	0.2192 *	33.9383	0.2093 *	33.9527
White Hispanic	0.2373	33.9278	0.2616	33.8154
Black	0.1234	33.5952 *	0.1649	33.5101 **
Other	-0.0979	34.0649	-0.0654	34.0970
	MSE = 2.8474		MSE = 2.683144	
Stillbirth/1000 births				
White Nonhispanic	-0.0064	0.0142	-0.0066	0.0135
White Hispanic	-0.0197 *	0.0289	-0.0182 *	0.0266
Black	0.0122	-0.0003	0.0114	0.0001
Other	0.0115	-0.0006	0.0096	0.0009
	MSE = 0.01032933		MSE = 0.01030132	
Ethnic group	WIC	Control	Total	
Duration of Gestation				
White Nonhispanic	1,529	463	1,992	
White Hispanic	436	201	637	
Black	1,082	195	1,277	
Other	90	48	138	
Total	3,137	907	4,044	
Birthweight				
White Nonhispanic	1,489	443	1,932	
White Hispanic	417	192	609	
Black	1,027	18	1,216	
Other	88	45	133	
Total	3,021	869	3,890	

(continued)

Table V-E-4.7 (continued)

Ethnic group	WIC	Control	Total
Infant Length			
White Nonhispanic	1,417	431	1,848
White Hispanic	403	183	586
Black	931	166	1,097
Other	83	42	125
Total	2,834	822	3,656
Infant Head Circumference			
White Nonhispanic	1,303	433	1,736
White Hispanic	317	166	483
Black	843	158	1,001
Other	73	34	107
Total	2,536	791	3,327
Stillbirths/1000 Births			
White Nonhispanic	1,554	472	2,026
White Hispanic	441	206	647
Black	1,104	197	1,301
Other	93	48	141
Total	3,192	923	4,115

* $p < 0.05$.** $p < 0.01$.*** $p < 0.001$.^aEntries in table are means for control group and difference from control group mean for WIC group.^bControlled for ethnicity and duration of gestation at registration into study.^cControlled for duration of gestation and maternal characteristics at registration into study. See Appendix V-E-1 for full covariate list.

Table V-E-4.8

Perinatal Outcomes by WIC Status at Registration^a and Marital Status

Marital status	Partially adjusted ^b		Fully adjusted ^c	
	WIC	Control	WIC	Control
Duration of Gestation (d)				
Not Married	-0.3816	277.2955	-0.0537	279.4107
Married	-1.4544	279.8063	-1.0327	280.6287
	MSE =	454.5549	MSE =	447.0291
Duration of Gestation < 33 Weeks				
Not Married	-0.0095	0.0371	-0.0118	0.0307
Married	-0.0037	0.0212	-0.0067	0.0192
	MSE =	0.03131106	MSE =	0.03109468
Duration of Gestation < 37 Weeks				
Not Married	-0.0161	0.1413	-0.0253	0.1160
Married	0.0186	0.0853 *	0.0110	0.0825
	MSE =	0.1183732	MSE =	0.1167174
Birthweight (g)				
w/o Adjusting for Duration of Gestation				
Not Married	-16.2129	3246.3020	-22.8408	3325.0210
Married	-8.1204	3366.8957**	-13.6440	3369.5661
	MSE =	299833.8	MSE =	271273.3
Adjusting for Duration of Gestation				
Not Married	-6.1680	3227.6129	-18.0818	3276.8274
Married	9.0211	3327.4916**	-1.8803	3316.7789
	MSE =	247701.5	MSE =	223685.9
Birthweight < 1501 g				
w/o Adjusting for Duration of Gestation				
Not Married	-0.0036	0.0107	-0.0041	0.0099
Married	-0.0010	0.0096	-0.0014	0.0114
	MSE =	0.009671298	MSE =	0.009689675
Adjusting for Duration of Gestation				
Not Married	-0.0048	0.0130	-0.0047	0.0160
Married	-0.0030	0.0144	-0.0029	0.0180
	MSE =	0.008922886	MSE =	0.008940448
Birthweight < 2501 g				
w/o Adjusting for Duration of Gestation				
Not Married	-0.0015	0.0772	0.0029	0.0649
Married	0.0093	0.0495	0.0095	0.0468
	MSE =	0.07020766	MSE =	0.06871595
Adjusting for Duration of Gestation				
Not Married	-0.0058	0.0854	0.0008	0.0864
Married	0.0019	0.0666	0.0043	0.0703
	MSE =	0.06031216	MSE =	0.05930673
Infant Length (cm)				
w/o Adjusting for Duration of Gestation				
Not Married	-0.5771 **	50.6054	-0.5287 *	50.7209
Married	0.0563	50.6269	0.1020	50.4069
	MSE =	13.01393	MSE =	12.25481
Adjusting for Duration of Gestation				
Not Married	-0.4315 *	50.4318	-0.4129 *	50.3923
Married	0.1206	50.4053	0.1392	50.1216
	MSE =	11.32354	MSE =	10.68621

(continued)

Table V-E-4.8 (continued)

Marital status	Partially adjusted ^b		Fully adjusted ^c	
	WIC	Control	WIC	Control
Infant Head Circumference (cm)				
w/o Adjusting for Duration of Gestation				
Not Married	0.1082	33.8973	0.1123	34.0787
Married	0.2053 *	34.1363	0.2258 *	34.0863
	MSE = 3.175658		MSE = 2.99239	
Adjusting for Duration of Gestation				
Not Married	0.1469	33.8331	0.1342	33.9512
Married	0.2413 *	34.0311	0.2428 **	33.9608
	MSE = 2.831397		MSE = 2.681382	
Stillbirth/1000 Births				
Not Married	-0.0073	0.0165	-0.0073	0.0153
Married	-0.0009	0.0106	-0.0009	0.0091
	MSE = 0.01034631		MSE = 0.01031042	

Marital status	WIC	Control	Total
Duration of Gestation			
Not Married	1,708	403	2,111
Married	1,429	504	1,933
Total	3,137	907	4,044
Birthweight			
Not Married	1,637	385	2,022
Married	1,384	484	1,868
Total	3,021	869	3,890
Infant Length			
Not Married	1,518	358	1,876
Married	1,316	464	1,780
Total	2,834	822	3,656
Infant Head Circumference			
Not Married	1,330	360	1,690
Married	1,206	431	1,566
Total	2,536	791	3,256
Stillbirths/1000 Births			
Not Married	1,744	410	2,154
Married	1,448	513	1,858
Total	3,192	923	4,115

* p < 0.05.

** p < 0.01.

*** p < 0.001.

^a Entries in table are means for control group and difference from control group mean for WIC group.^b Controlled for ethnicity and duration of gestation at registration into study.^c Controlled for duration of gestation and maternal characteristics at registration into study. See Appendix V-E-1 for full covariate list.

Table V-E-4.9

Perinatal Outcomes by WIC Status at Registration^a and Presence of Father and Household Size

Married or father present and household size	Partially adjusted ^b		Fully adjusted ^c	
	WIC	Control	WIC	Control
Duration of Gestation (d)				
No, HHS=1	-1.1415	281.0394	-1.6096	283.7110
No, HHS=2,3	0.5995	277.2558	0.2048	280.0589
No, HHS=4+	-1.7812	276.9641	-1.4003	279.1978
Yes, HHS=2,3	-0.1938	279.0645	0.0254	280.0178
Yes, HHS=4+	-1.7619	279.1824	-0.9364	280.1554
	MSE = 454.1926		MSE = 447.4595	
Duration of Gestation < 33 Weeks				
No, HHS=1	0.0318	-0.0023	0.0355	-0.0089
No, HHS=2,3	-0.0396 *	0.0573	-0.0383 *	0.0495
No, HHS=4+	0.0158	0.0201	0.0131	0.0108
Yes, HHS=2,3	-0.0097	0.0264	-0.0115	0.0245
Yes, HHS=4+	-0.0046	0.0259	-0.0102	0.0224
	MSE = 0.03132		MSE = 0.03112667	
Duration of Gestation < 37 Weeks				
No, HHS=1	-0.0170	0.0907	-0.0201	0.0649
No, HHS=2,3	-0.0142	0.1148	-0.0126	0.0791
No, HHS=4+	-0.0142	0.1711	-0.0243	0.1445
Yes, HHS=2,3	-0.0097	0.1088	-0.0132	0.1025
Yes, HHS=4+	0.0360	0.0791	0.0203	0.0714
	MSE = 0.1181265		MSE = 0.1167515	
Birthweight (g)				
w/o Adjusting for Duration of Gestation				
No, HHS=1	-57.1832	3284.9742	-87.2086	3383.9367
No, HHS=2,3	-3.4426	3228.3860	-11.9207	3305.7129
No, HHS=4+	26.0263	3212.5337	30.8063	3284.8215
Yes, HHS=2,3	-21.4014	3342.7694	-37.9808	3379.7467
Yes, HHS=4+	-31.8729	3397.2481	-20.7018	3369.1915
	MSE = 300732.6		MSE = 271644.5	
Adjusting for Duration of Gestation				
No, HHS=1	-70.3894	3242.3798	-97.0561	3311.0410
No, HHS=2,3	-2.4010	3219.3524	-7.1866	3259.3543
No, HHS=4+	47.8757	3200.4582	44.9695	3242.8102
Yes, HHS=2,3	-11.8827	3305.8883	-31.3179	3327.8536
Yes, HHS=4+	-13.0336	3362.5125	-11.3274	3317.5213
	MSE = 248332.7		MSE = 224107.6	
Birthweight < 1501 g				
w/o Adjusting for Duration of Gestation				
No, HHS=1	0.0091	-0.0006	0.0085	0.0016
No, HHS=2,3	-0.0085	0.0216	-0.0086	0.0217
No, HHS=4+	-0.0046	0.0115	-0.0049	0.0117
Yes, HHS=2,3	0.0009	0.0080	0.0005	0.0100
Yes, HHS=4+	-0.0030	0.0085	-0.0037	0.0088
	MSE = 0.009680895		MSE = 0.009700812	
Adjusting for Duration of Gestation				
No, HHS=1	0.0107	0.0045	0.0098	0.0108
No, HHS=2,3	-0.0086	0.0227	-0.0092	0.0275
No, HHS=4+	-0.0072	0.0129	-0.0067	0.0170
Yes, HHS=2,3	-0.0002	0.0125	-0.0004	0.0165
Yes, HHS=4+	-0.0053	0.0127	-0.0049	0.0153
	MSE = 0.00893028		MSE = 0.00895036	

(continued)

Table V-E-4.9 (continued)

Married or father present and household size	Partially adjusted ^b		Fully adjusted ^c	
	WIC	Control	WIC	Control
Birthweight < 2501 g				
w/o Adjusting for Duration of Gestation				
No, HHS=1	0.0401	0.0318	0.0470	0.0193
No, HHS=2,3	-0.0039	0.0799	0.0018	0.0629
No, HHS=4+	-0.0204	0.0927	-0.0170	0.0829
Yes, HHS=2,3	-0.0036	0.0612	-0.0000	0.0565
Yes, HHS=4+	0.0317	0.0363	0.0290	0.0332
	MSE = 0.07022682		MSE = 0.06869548	
Adjusting for Duration of Gestation				
No, HHS=1	0.0459	0.0503	0.0514	0.0517
No, HHS=2,3	-0.0044	0.0839	-0.0003	0.0835
No, HHS=4+	-0.0299	0.0979	-0.0233	0.1016
Yes, HHS=2,3	-0.0078	0.0772	-0.0030	0.0796
Yes, HHS=4+	0.0235	0.0514	0.0248	0.0562
	MSE = 0.06032525		MSE = 0.0593093	
Infant Length (cm)				
w/o Adjusting for Duration of Gestation				
No, HHS=1	-0.4682	50.3527	-0.5999	50.5922
No, HHS=2,3	-0.6483	50.7916	-0.6207	50.9132
No, HHS=4+	-0.5119	50.4449	-0.4144	50.5049
Yes, HHS=2,3	0.2361	50.4335	0.2195	50.3552
Yes, HHS=4+	-0.4175	50.9276	-0.2666	50.6026
	MSE = 13.03828		MSE = 12.26952	
Adjusting for Duration of Gestation				
No, HHS=1	-0.4198	50.1178	-0.5529	50.2157
No, HHS=2,3	-0.5584	50.6367	-0.5219	50.5774
No, HHS=4+	-0.2738	50.2977	-0.2095	50.1903
Yes, HHS=2,3	0.2892	50.2101	0.2582	50.0534
Yes, HHS=4+	-0.3646	50.7467	-0.2666	50.3355
	MSE = 11.34403		MSE = 10.6983	
Infant Head Circumference (cm)				
w/o Adjusting for Duration of Gestation				
No, HHS=1	0.4260	33.8235	0.4139	34.0565
No, HHS=2,3	0.0262	33.9260	0.0421	34.0938
No, HHS=4+	0.2443	33.7933	0.2456	34.0031
Yes, HHS=2,3	0.1674	34.0325	0.1623	34.0849
Yes, HHS=4+	0.0966	34.3019	0.1686	34.1489
	MSE = 3.179909		MSE = 2.996916	
Adjusting for Duration of Gestation				
No, HHS=1	0.3607	33.7257	0.3491	33.9043
No, HHS=2,3	0.0672	33.8680	0.0797	33.9603
No, HHS=4+	0.3032	33.7565	0.2924	33.8917
Yes, HHS=2,3	0.1911	33.9282	0.1783	33.9527
Yes, HHS=4+	0.1311	34.2148	0.1670	34.0314
	MSE = 2.833482		MSE = 2.686708	
Stillbirth/1000 Births				
No, HHS=1	-0.0007	0.0003	-0.0014	-0.0041
No, HHS=2,3	-0.0040	0.0145	-0.0028	0.0113
No, HHS=4+	-0.0032	0.0117	-0.0037	0.0102
Yes, HHS=2,3	-0.0064	0.0160	-0.0064	0.0141
Yes, HHS=4+	-0.0010	0.0113	-0.0007	0.0100
	MSE = 0.01036305		MSE = 0.01032633	

(continued)

Table V-E-4.9 (continued)

Married or father present and household size	WIC	Control	Total
Duration of Gestation			
No, HHS=1	102	29	131
No, HHS=2,3	545	132	677
No, HHS=4+	801	160	961
Yes, HHS=2,3	944	340	1,284
Yes, HHS=4+	743	240	983
Total	3,135	901	4,036
Birthweight			
No, HHS=1	97	28	125
No, HHS=2,3	521	127	648
No, HHS=4+	772	154	926
Yes, HHS=2,3	914	328	1,242
Yes, HHS=4+	715	226	941
Total	3,019	863	3,882
Infant Length			
No, HHS=1	93	28	121
No, HHS=2,3	488	111	599
No, HHS=4+	699	144	843
Yes, HHS=2,3	872	313	1,185
Yes, HHS=4+	680	220	900
Total	2,832	816	3,648
Infant Head Circumference			
No, HHS=1	50	53	103
No, HHS=2,3	442	100	542
No, HHS=4+	620	136	756
Yes, HHS=2,3	793	291	1,084
Yes, HHS=4+	630	205	835
Total	2,535	785	3,320
Stillbirths/1000 Births			
No, HHS=1	104	29	133
No, HHS=2,3	560	133	693
No, HHS=4+	817	165	982
Yes, HHS=2,3	954	350	1,304
Yes, HHS=4+	755	240	995
Total	3,190	917	4,107

* $p < 0.05$.** $p < 0.01$.*** $p < 0.001$.^a Entries in table are means for control group and difference from control group mean for WIC group.^b Controlled for ethnicity and duration of gestation at registration into study.^c Controlled for duration of gestation and maternal characteristics at registration into study. See Appendix V-E-1 for full covariate list.

Table V-E-4.10

Perinatal Outcomes by WIC Status at Registration^a and
Maternal Education

Maternal Education (yrs)	Partially Adjusted		Fully Adjusted	
	WIC	Control	WIC	Control
Duration of Gestation (d)				
<12	-0.5077	277.4308	-0.4045	279.5224
12+	-1.0789	279.9623	-0.7865	280.5829
	MSE = 454.1398		MSE = 447.5696	
Duration of Gestation < 33 Weeks				
<12	-0.0141	0.0400	-0.0142	0.0321
12+	-0.0011	0.0168	-0.0030	0.0168
	MSE = 0.03129108		MSE = 0.03107303	
Duration of Gestation < 37 Weeks				
<12	-0.0022	0.1318	-0.0067	0.1085
12+	0.0009	0.0890	-0.0075	0.0903
	MSE = 0.1182128		MSE = 0.1167461	
Birthweight (g)				
<12	-9.0148	3279.3497	-24.5319	3352.4394
12+	-8.9985	3361.0154*	-11.2717	3338.6116
	MSE = 301629.9		MSE = 271535.5	
Adjusting for Duration of Gestation				
<12	3.6603	3261.9584	-13.0728	3303.7769
12+	1.7380	3318.1284	-5.2848	3285.6769
	MSE = 249627.4		MSE = 224196.4	
Birthweight < 1501 g				
<12	-0.0018	0.0114	-0.0010	0.0109
12+	-0.0034	0.0093	-0.0043	0.0100
	MSE = 0.009668968		MSE = 0.009690762	
Adjusting for Duration of Gestation				
<12	-0.0033	0.0135	-0.0024	0.0170
12+	-0.0046	0.0144	-0.0051	0.0167
	MSE = 0.008924561		MSE = 0.008941564	
Birthweight < 2501 g				
W/o Adjusting for Duration of Gestation				
<12	0.0148	0.0600	0.0198	0.0491
12+	-0.0068	0.0610	-0.0070	0.0634
	MSE = 0.07021225		MSE = 0.06869223	
Adjusting for Duration of Gestation				
<12	0.0093	0.0676	0.0147	0.0707
12+	-0.0115	0.0797	-0.0096	0.0869
	MSE = 0.06032709		MSE = 0.05930985	
Infant Length (cm)				
W/o Adjusting for Duration of Gestation				
<12	-0.3027	50.4918	-0.2774	50.5928
12+	-0.1244	50.8069	-0.0782	50.4842
	MSE = 13.03479		MSE = 12.27533	
Adjusting for Duration of Gestation				
<12	-0.2062	50.3570	-0.1933	50.2944
12+	-0.0380	50.5338	-0.0167	50.1726
	MSE = 11.34609		MSE = 10.70947	

(continued)

Table V-E-4.10 (continued)

	Partially Adjusted		Fully Adjusted	
Maternal Education (yrs)	WIC	Control	WIC	Control
Infant Head Circumference (cm)				
W/o Adjusting for Duration of Gestation				
<12	0.1650	33.9532	0.1633	34.0964
12+	0.1705	34.1457	0.2050*	34.0397
	MSE = 3.187717		MSE = 2.995912	
Adjusting for Duration of Gestation				
<12	0.1989*	33.9012	0.1878*	33.9748
12+	0.1999*	34.0217	0.2149*	33.9120
	MSE = 2.843882		MSE = 2.686824	
Stillbirth/1000 Births				
<12	-0.0053	0.0154	-0.0042	0.0149
12+	-0.0029	0.0114	-0.0033	0.0090
	MSE = 0.01034703		MSE = 0.01033872	
WIC Status				
Maternal Education (yrs)	WIC	Control	Total	
Duration of Gestation				
<12	1,726	414	2,140	
12+	1,411	493	1,904	
Total	3,137	907	4,044	
Birthweight				
<12	1,664	396	2,060	
12+	1,357	473	1,830	
Total	3,021	869	3,890	
Infant Length				
<12	1,561	375	1,936	
12+	1,273	447	1,720	
Total	2,834	822	3,656	
Infant Head Circumference				
<12	1,384	385	1,769	
12+	1,152	406	1,558	
Total	2,536	791	3,327	
Stillbirths/1000 Births				
<12	1,754	421	2,175	
12+	1,438	502	1,940	
Total	3,192	923	4,115	

*p < 0.05.
 **p < 0.01.
 ***p < 0.001.

^a Entries in table are means for Control group and differences from Control group mean for WIC group.

^b Controlled for ethnicity and duration of gestation at registration into study.

^c Controlled for duration of gestation and maternal characteristics at registration into study. See Appendix V-E-1 for full covariate list.

Table V-E-4.11

Perinatal Outcomes by WIC Status at Registration^a and Family Income

Family Income	Partially adjusted ^b		Fully adjusted ^c	
	WIC	Control	WIC	Control
Duration of Gestation (d)				
<3,000	-1.7013	278.6090	-2.4246	281.1392
3,000-6,999	2.2935	275.2070	2.6083	276.8496
7,000-12,999	-2.5578	280.5146 **	-2.0236	281.0407 *
13,000+	2.6502	276.9252	2.8888	277.8882
Missing	-4.7444 *	282.1647 **	-4.5830 *	284.7252 ***
	MSE =	454.0447	MSE =	446.3643
Duration of Gestation < 33 Weeks				
<3,000	0.0110	0.0161	0.0152	0.0055 *
3,000-6,999	-0.0430 **	0.0571	-0.0452 **	0.0521
7,000-12,999	0.0127	0.0128 **	0.0095	0.0132 *
13,000+	-0.0139	0.0304	-0.0180	0.0293
Missing	0.0106	0.0195 *	0.0097	0.0080 *
	MSE =	0.03128195	MSE =	0.03101624
Duration of Gestation < 37 Weeks				
<3,000	0.0267	0.1029	0.0349	0.0728 *
3,000-6,999	-0.0622 *	0.1822	-0.0709 **	0.1672
7,000-12,999	0.0168	0.0865 **	0.0076	0.0843 **
13,000+	-0.0352	0.1116	-0.0411	0.1040
Missing	0.0790 *	0.0467 **	0.0733 *	0.0168 ***
	MSE =	0.118121	MSE =	0.1164368
Birthweight (g)				
w/o Adjusting for Duration of Gestation				
<3,000	66.6105	3203.1991	37.1640	3284.4103
3,000-6,999	56.4184	3223.9192	50.0309	3275.6877
7,000-12,999	-39.8650	3384.8040 **	-60.6989	3381.6671 *
13,000+	-46.8930	3381.2425 *	-36.5687	3356.3240
Missing	-53.0549	3344.0152 *	-59.3450	3421.9630 *
	MSE =	301750.5	MSE =	271238.7
Adjusting for Duration of Gestation				
<3,000	77.6340	3185.7227	54.5597	3233.8667
3,000-6,999	36.3051	3236.3441	26.5074	3262.0708
7,000-12,999	-10.6645	3332.0316 *	-37.8464	3317.0020
13,000+	-65.6306	3364.5382 *	-58.8357	3323.9828
Missing	-3.4978	3276.5369	-11.4268	3320.0812
	MSE =	249658.4	MSE =	223795.5
Birthweight < 1501 g				
w/o Adjusting for Duration of Gestation				
<3,000	-0.0237 *	0.0365	-0.0226	0.0335
3,000-6,999	-0.0155 *	0.0215	-0.0164 *	0.0204
7,000-12,999	0.0004	0.0054	0.0007	0.0053
13,000+	0.0134	-0.0006	0.0132	-0.0003
Missing	0.0111	-0.0018 *	0.0115	-0.0016 *
	MSE =	0.009647948	MSE =	0.009671093
Adjusting for Duration of Gestation				
<3,000	-0.0250 *	0.0386	-0.0248 *	0.0398
3,000-6,999	-0.0131	0.0200	-0.0135	0.0222
7,000-12,999	-0.0031	0.0116	-0.0022	0.0134
13,000+	0.0156	0.0014	0.0160	0.0038
Missing	0.0052	0.0062	0.0055	0.0112
	MSE =	0.008907882	MSE =	0.008924691

(continued)

Table V-E-4.11 (continued)

Family Income	Partially adjusted ^b		Fully adjusted ^c	
	WIC	Control	WIC	Control
Birthweight < 2501 g				
w/o Adjusting for Duration of Gestation				
<3,000	0.0020	0.0757	0.0115	0.0562
3,000-6,999	-0.0080	0.0747	-0.0077	0.0642
7,000-12,999	0.0114	0.0478	0.0141	0.0498
13,000+	0.0250	0.0483	0.0254	0.0495
Missing	-0.0118	0.0697	-0.0092	0.0649
	MSE = 0.07032701		MSE = 0.06877944	
Adjusting for Duration of Gestation				
<3,000	-0.0029	0.0834	0.0038	0.0788
3,000-6,999	0.0008	0.0692	0.0028	0.0703
7,000-12,999	-0.0014	0.0709	0.0039	0.0786
13,000+	0.0332	0.0556	0.0353	0.0640
Missing	-0.0335	0.0993	-0.0306	0.1104
	MSE = 0.06036989		MSE = 0.0593199	
Infant Length (cm)				
w/o Adjusting for Duration of Gestation				
<3,000	-0.2340	50.4832	-0.3189	50.6252
3,000-6,999	-0.0279	50.3027	0.0201	50.3266
7,000-12,999	-0.4363	50.8662	-0.4548	50.6397
13,000+	0.1259	50.7878	0.2089	50.5089
Missing	-0.3165	50.6780	-0.2255	50.7351
	MSE = 13.06797		MSE = 12.27351	
Adjusting for Duration of Gestation				
<3,000	-0.0496	50.2542	-0.1282	50.2472
3,000-6,999	-0.0732	50.2940	-0.0556	50.1979
7,000-12,999	-0.2788	50.5469	-0.3260	50.2652
13,000+	0.0356	50.6767	0.0994	50.3228
Missing	-0.0615	50.3463	0.0277	50.2082
	MSE = 11.36779		MSE = 10.70236	
Infant Head Circumference (cm)				
w/o Adjusting for Duration of Gestation				
<3,000	0.4612 *	33.5828	0.4430	33.7380
3,000-6,999	0.2767 *	33.8817	0.2783 *	33.9806
7,000-12,999	0.1226	34.1709	0.0997	34.1306
13,000+	0.2706	34.1070	0.3383	33.9847
Missing	-0.1253	34.2484	-0.0995	34.4189 *
	MSE = 3.185953		MSE = 2.992193	
Adjusting for Duration of Gestation				
<3,000	0.5061 *	33.5081	0.4894 *	33.5966
3,000-6,999	0.2502	33.8759	0.2317	33.9268
7,000-12,999	0.1927	34.0344	0.1481	33.9799
13,000+	0.2260	34.0569	0.2782	33.9124
Missing	-0.0162	34.0900	0.0001	34.1864
	MSE = 2.841169		MSE = 2.682865	
Stillbirth/1000 Births				
<3,000	-0.0265 *	0.0341	-0.0255 *	0.0326
3,000-6,999	-0.0031	0.0115	-0.0031	0.0114
7,000-12,999	-0.0017	0.0135	-0.0029	0.0135
13,000+	-0.0028	0.0155	-0.0019	0.0132
Missing	0.0064	-0.0007	0.0055	-0.0022
	MSE = 0.01034311		MSE = 0.01031529	

(continued)

Table V-E-4.11 (continued)

Family Income	WIC	Control	Total
Duration of Gestation			
<3,000	1,030	230	1,260
3,000-6,999	500	86	586
7,000-12,999	804	334	1,138
13,000+	316	122	438
Missing	487	135	622
Total	3,137	907	4,044
Birthweight			
<3,000	989	217	1,206
3,000-6,999	486	81	567
7,000-12,999	767	325	1,092
13,000+	308	116	424
Missing	471	130	601
Total	3,021	869	3,890
Infant Length			
<3,000	925	206	1,131
3,000-6,999	447	76	523
7,000-12,999	722	309	1,031
13,000+	293	110	403
Missing	447	121	568
Total	2,834	822	3,656
Infant Head Circumference			
<3,000	802	222	1,024
3,000-6,999	400	68	468
7,000-12,999	659	287	946
13,000+	269	102	371
Missing	406	112	518
Total	2,536	791	3,327
Stillbirths/1000 Births			
<3,000	1,048	236	1,284
3,000-6,999	515	87	602
7,000-12,999	813	341	1,154
13,000+	322	123	445
Missing	494	136	630
Total	3,192	923	4,115

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aEntries in table are means for control group and difference from control group mean for WIC group.^bControlled for ethnicity and duration of gestation at registration into study.^cControlled for duration of gestation and maternal characteristics at registration into study. See Appendix V-E-1 for full covariate list.

Table V-E-4.12

Perinatal Outcomes by WIC Status at Registration^a and Receipt of AFDC and Food Stamps

Participation Group	Partially adjusted ^b		Fully adjusted ^c	
	WIC	Control	WIC	Control
Duration of Gestation (d)				
Nonparticipant	-2.0434	279.4232	-1.6795	279.9507
AFDC	-7.5295	281.2245	-8.5633	284.6340
Food Stamps	3.5806	272.7762	3.7179	274.5811
AFDC and FS	3.9471	271.5199	3.1515	274.7589
	MSE = 681.9521		MSE = 675.1629	
Duration of Gestation < 33 Weeks				
Nonparticipant	0.0022	0.0243	-0.0009	0.0320
AFDC	0.0251	-0.0077	0.0203	-0.0059
Food Stamps	-0.0288	0.0608	-0.0306	0.0612
AFDC and FS	-0.0303	0.0565	-0.0267	0.0513
	MSE = 0.03886733		MSE = 0.03862377	
Duration of Gestation < 37 Weeks				
Nonparticipant	0.0093	0.0973	0.0035	0.1101
AFDC	0.0736	0.0960	0.0768	0.0728
Food Stamps	-0.0304	0.1498	-0.0353	0.1409
AFDC and FS	-0.0685	0.2226*	-0.0562	0.1873
	MSE = 0.1232988		MSE = 0.1219355	
Birthweight (g)				
w/o Adjusting for Duration of Gestation				
Nonparticipant	-35.1300	3350.9541	-40.8337	3365.3703
AFDC	104.4210	3223.6272	125.6633	3265.0962
Food Stamps	-19.9705	3312.7782	-29.1279	3355.7986
AFDC and FS	234.0840 **	3052.8347***	170.2239 *	3159.7709**
	MSE = 302289.3		MSE = 271321.9	
Adjusting for Duration of Gestation				
Nonparticipant	-17.7358	3309.8567	-27.0531	3307.5444
AFDC	138.8662	3191.9050	168.1935	3184.2509
Food Stamps	-16.6951	3298.0993	-27.8703	3308.3604
AFDC and FS	188.8127 **	3096.6462**	138.3502 *	3145.0202*
	MSE = 249939.8		MSE = 223836.9	
Birthweight < 1501 g				
w/o Adjusting for Duration of Gestation				
Nonparticipant	0.0025	0.0055	0.0027	0.0097
AFDC	0.0090	-0.0016	0.0097	0.0012
Food Stamps	0.0006	0.0094	0.0002	0.0120
AFDC and FS	-0.0692 **	0.0744***	-0.0667 **	0.0738***
	MSE = 0.009620348		MSE = 0.009646415	
Adjusting for Duration of Gestation				
Nonparticipant	0.0004	0.0103	0.0009	0.0170
AFDC	0.0049	0.0021	0.0044	0.0113
Food Stamps	0.0002	0.0112	0.0000	0.0179
AFDC and FS	-0.0639 **	0.0692***	-0.0627 **	0.0756***
	MSE = 0.008886173		MSE = 0.00890411	
Birthweight < 2501 g				
w/o Adjusting for Duration of Gestation				
Nonparticipant	0.0030	0.0552	0.0081	0.0553
AFDC	-0.0637	0.1157	-0.0681	0.1178
Food Stamps	0.0133	0.0585	0.0133	0.0577
AFDC and FS	-0.0357	0.1210	-0.0094	0.0920
	MSE = 0.07021715		MSE = 0.0687644	

(continued)

Table V-E-4 12 (continued)

Participation Group	Partially adjusted ^b		Fully adjusted ^c	
	WIC	Control	WIC	Control
Adjusting for Duration of Gestation				
Nonparticipant	-0.0045	0.0731	0.0019	0.0811
AFDC	-0.0787	0.1295	-0.0871	0.1538
Food Stamps	0.0118	0.0649	0.0128	0.0789
AFDC and FS	-0.0161	0.1020	0.0048	0.0986
	MSE = 0.06033877		MSE = 0.05933596	
Infant Length (cm)				
w/o Adjusting for Duration of Gestation				
Nonparticipant	-0.2231	50.7389	-0.1903	50.6091
AFDC	1.5340	48.7116*	1.5975	48.8971
Food Stamps	-0.6933 *	50.9840	-0.6639 *	51.0116
AFDC and FS	1.0833	49.1466**	0.9184	49.4310*
	MSE = 13.03689		MSE = 12.25163	
Adjusting for Duration of Gestation				
Nonparticipant	-0.1408	50.5056	-0.1247	50.2481
AFDC	1.9221 *	48.3647*	2.0056 *	48.2784*
Food Stamps	-0.5832 *	50.8096	-0.5758 *	50.6382
AFDC and FS	0.9979	49.2223*	0.8765	49.2008*
	MSE = 11.33431		MSE = 10.67538	
Infant Head Circumference (cm)				
w/o Adjusting for Duration of Gestation				
Nonparticipant	0.0683	34.1512	0.0847	34.2268
AFDC	0.4870	33.5057	0.4137	33.8256
Food Stamps	0.2241	33.9996	0.2472	34.1379
AFDC and FS	0.9676 **	33.1611***	0.8266 **	33.4770**
	MSE = 3.185358		MSE = 2.989193	
Adjusting for Duration of Gestation				
Nonparticipant	0.0989	34.0492	0.1012	34.0756
AFDC	0.7424	33.2820	0.6890	33.4714
Food Stamps	0.2494	33.9247	0.2575	33.9827
AFDC and FS	0.8870 **	33.2534**	0.7824 **	33.4118*
	MSE = 2.840368		MSE = 2.679265	
Stillbirth/1000 Births				
Nonparticipant	-0.0010	0.0127	-0.0019	0.0117
AFDC	0.0097	-0.0006	0.0071	-0.0015
Food Stamps	-0.0163 *	0.0207	-0.0164 *	0.0172
AFDC and FS	0.0116	-0.0007	0.0126	-0.0044
	MSE = 0.01034469		MSE = 0.01031013	

Participation Group	WIC	Control	Total
Duration of Gestation			
Nonparticipant	1,582	657	2,239
AFDC	112	18	130
Food Stamps	905	178	1,083
AFDC and Food Stamps	538	54	592
Total	3,137	907	4,044
Birthweight			
Nonparticipant	1,516	626	2,142
AFDC	109	16	125
Food Stamps	877	175	1,052
AFDC and Food Stamps	519	52	571
Total	3,021	869	3,890

(continued)

Table V-E-4.12 (continued)

Participation Group	WIC	Control	Total
Infant Length			
Nonparticipant	1,436	592	2,028
AFDC	105	16	121
Food Stamps	824	167	991
AFDC and Food Stamps	469	47	516
Total	2,834	822	3,656
Infant Head Circumference			
Nonparticipant	1,257	574	1,831
AFDC	100	14	114
Food Stamps	730	159	889
AFDC and Food Stamps	449	44	493
Total	2,536	791	3,327
Stillbirths/1000 Births			
Nonparticipant	1,609	668	2,277
AFDC	115	18	133
Food Stamps	919	183	1,102
AFDC and Food Stamps	549	54	603
Total	3,192	923	4,115

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Entries in table are means for control group and difference from control group mean for WIC group.

^b Controlled for ethnicity and duration of gestation at registration into study.

^c Controlled for duration of gestation and maternal characteristics at registration into study. See Appendix V-E-1 for full covariate list.

Table V-E-4.13

Perinatal Outcomes by WIC Status at Registration^a and Medicaid Status

Medicaid Status	Partially adjusted ^b		Fully adjusted ^c	
	WIC	Control	WIC	Control
Duration of Gestation (d)				
Not Medicaid	-0.5922	278.9471	0.1422	279.7445
Medicaid	-2.6248	278.3192	-2.7901	280.8797
	MSE = 454.2141		MSE = 446.9116	
Duration of Gestation < 33 Weeks				
Not Medicaid	-0.0074	0.0280	-0.0118	0.0273
Medicaid	-0.0007	0.0255	0.0023	0.0156
	MSE = 0.03133752		MSE = 0.03107604	
Duration of Gestation < 37 Weeks				
Not Medicaid	-0.0009	0.1046	-0.0155	0.1037
Medicaid	0.0217	0.1213	0.0186	0.0883
	MSE = 0.1183842		MSE = 0.1167046	
Birthweight (g)				
w/o Adjusting for Duration of Gestation				
Not Medicaid	-44.9042	3357.9394	-32.6054	3360.5254
Medicaid	60.0175	3216.8824**	24.3355	3302.1456
	MSE = 302259.4		MSE = 271236.8	
Adjusting for Duration of Gestation				
Not Medicaid	-31.0635	3320.6272	-28.1679	3309.4073
Medicaid	80.0599 *	3204.1255**	44.5962	3253.7210
	MSE = 249792		MSE = 223574.7	
Birthweight < 1501 g				
w/o Adjusting for Duration of Gestation				
Not Medicaid	0.0014	0.0067	0.0006	0.0076
Medicaid	-0.0132	0.0214	-0.0127	0.0196
	MSE = 0.009662932		MSE = 0.009686799	
Adjusting for Duration of Gestation				
Not Medicaid	-0.0003	0.0112	0.0001	0.0140
Medicaid	-0.0156 *	0.0229	-0.0152 *	0.0257
	MSE = 0.008917142		MSE = 0.008935459	
Birthweight < 2501 g				
w/o Adjusting for Duration of Gestation				
Not Medicaid	0.0122	0.0510	0.0102	0.0518
Medicaid	-0.0144	0.0898	-0.0066	0.0709
	MSE = 0.0702108		MSE = 0.06872062	
Adjusting for Duration of Gestation				
Not Medicaid	0.0061	0.0672	0.0083	0.0745
Medicaid	-0.0231	0.0954	-0.0156	0.0924
	MSE = 0.06031683		MSE = 0.05930015	
Infant Length (cm)				
w/o Adjusting for Duration of Gestation				
Not Medicaid	-0.3109	50.7405	-0.1601	50.4983
Medicaid	-0.1007	50.4169	-0.2331	50.6671
	MSE = 13.08019		MSE = 12.27265	
Adjusting for Duration of Gestation				
Not Medicaid	-0.2313	50.5227	-0.1349	50.2204
Medicaid	0.1055	50.2279	-0.0183	50.2840
	MSE = 11.36644		MSE = 10.70023	

(continued)

Table V-E-4.13 (continued)

Medicaid Status	Partially adjusted ^b		Fully adjusted ^c	
	WIC	Control	WIC	Control
Infant Head Circumference (cm)				
w/o Adjusting for Duration of Gestation				
Not Medicaid	0.1286	34.1002	0.1937 *	34.0544
Medicaid	0.2083	33.9067	0.1426	34.1240
	MSE = 3.193792		MSE = 2.992503	
Adjusting for Duration of Gestation				
Not Medicaid	0.1542 *	34.0052	0.1898 *	33.9402
Medicaid	0.2926 *	33.8306	0.2231	33.9684
	MSE = 2.846021		MSE = 2.682141	
Stillbirth/1000 Births				
Not Medicaid	-0.0054	0.0147	-0.0055	0.0136
Medicaid	0.0009	0.0085	0.0009	0.0078
	MSE = 0.01034674		MSE = 0.01031312	

Medicaid Status	WIC	Control	Total
Duration of Gestation			
Not Medicaid	2,394	690	3,084
Medicaid	743	217	960
Total	3,137	907	4,044
Birthweight			
Not Medicaid	2,298	656	2,954
Medicaid	723	213	936
Total	3,021	869	3,890
Infant Length			
Not Medicaid	2,156	626	2,782
Medicaid	678	196	874
Total	2,834	822	3,656
Infant Head Circumference			
Not Medicaid	1,904	612	2,516
Medicaid	632	179	811
Total	2,536	791	3,327
Stillbirths/1000 Births			
Not Medicaid	2,428	703	3,131
Medicaid	764	220	984
Total	3,192	923	4,115

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aEntries in table are means for control group and difference from control group mean for WIC group.^bControlled for ethnicity and duration of gestation at registration into study.^cControlled for duration of gestation and maternal characteristics at registration into study. See Appendix V-E-1 for full covariate list.

Table V-E-4.14

Perinatal Outcomes by WIC Status^a at Registration and Employment Status

Employment Status	Partially Adjusted ^b		Fully Adjusted ^c	
	WIC	Control	WIC	Control
Duration of Gestation (d)				
Not Working	-1.3393	278.8333	-0.9455	278.7274
Work T1/No T2 Data	-7.9648	261.8101***	-7.5398	263.1676***
Work at T1/Not T2	-0.7975	281.7174	-0.7637	283.6523
Work at T2	1.1628	280.8822	1.4186	281.8418
	MSE = 446.1438		MSE = 438.3805	
Duration of Gestation < 33 Weeks				
Not Working	-0.0047	0.0277	-0.0061	0.0265
Work T1/No T2 Data	0.0383	0.2256***	0.0371	0.2235***
Work at T1/Not T2	0.0035	-0.0083*	0.0008	-0.0073
Work at T2	-0.0132	0.0023	-0.0165	0.0032
	MSE = 0.03038712		MSE = 0.03012169	
Duration of Gestation < 37 Weeks				
Not Working	0.0039	0.1142	-0.0055	0.1228
Work T1/No T2 Data	0.1158	0.3286**	0.1127	0.3346**
Work at T1/Not T2	0.0291	0.0372*	0.0284	0.0388
Work at T2	-0.0395	0.0742	-0.0458	0.0883
	MSE = 0.1166667		MSE = 0.1151263	
Birthweight (g)				
W/o Adjusting for Duration of Gestation				
Not Working	-33.1883	3328.5275	-35.8114	3354.2513
Work T1/No T2 Data	16.1588	3057.3489*	-121.2383	3183.6046
Work at T1/Not T2	-10.1062	3381.0188	-1.0949	3422.2471
Work at T2	88.6547	3307.8213	65.6147	3364.1344
	MSE = 301777.5		MSE = 270622.9	
Adjusting for Duration of Gestation				
Not Working	-14.2093	3296.0663	-23.4455	3327.4192
Work T1/No T2 Data	61.8360	3186.3028	-83.4857	3283.5856
Work at T1/Not T2	3.2880	3324.6741	14.1385	3334.8952
Work at T2	76.0785	3263.4124	48.8471	3306.3781
	MSE = 250209.8		MSE = 224307.9	
Birthweight < 1501 g				
W/o Adjusting for Duration of Gestation				
Not Working	-0.0042	0.0125	-0.0042	0.0109
Work T1/No T2 Data	0.0191	0.0411	0.0205	0.0399
Work at T1/Not T2	0.0079	-0.0019	0.0078	-0.0026
Work at T2	-0.0001	-0.0017	0.0002	-0.0017
	MSE = 0.00963899		MSE = 0.009675764	
Adjusting for Duration of Gestation				
Not Working	-0.0064	0.0163	-0.0057	0.0143
Work T1/No T2 Data	0.0137	0.0258	0.0157	0.0274
Work at T1/Not T2	0.0063	0.0048	0.0059	0.0083
Work at T2	0.0014	0.0036	0.0023	0.0055
	MSE = 0.008918505		MSE = 0.008952118	

(continued)

Table V-E-4.14 (continued)

Employment Status	Partially Adjusted ^b		Fully Adjusted ^c	
	WIC	Control	WIC	Control
Birthweight < 2501 g				
W/o Adjusting for Duration of Gestation				
Not Working	0.0113	0.0562	0.0105	0.0510
Work T1/No T2 Data	0.0294	0.1989**	0.0468	0.1956*
Work at T1/Not T2	-0.0051	0.0529	-0.0074	0.0632
Work at T2	-0.0202	0.0559	-0.0093	0.0561
	MSE =	0.06994511	MSE =	0.06834483
Adjusting for Duration of Gestation				
Not Working	0.0031	0.0702	0.0050	0.0629
Work T1/No T2 Data	0.0096	0.1432	0.0301	0.1513
Work at T1/Not T2	-0.0109	0.0773	-0.0141	0.1019
Work at T2	-0.0148	0.0751	-0.0018	0.0817
	MSE =	0.06031468	MSE =	0.05925926
Infant Length (cm)				
W/o Adjusting for Duration of Gestation				
Not Working	-0.2738	50.6326	-0.2199	50.6706
Work T1/No T2 Data	0.2869	49.4301	-0.2564	49.8033
Work at T1/Not T2	-0.6075	51.0285	-0.4458	50.9187
Work at T2	0.2184	50.8071	0.1204	50.8798
	MSE =	13.06023	MSE =	12.27477
Adjusting for Duration of Gestation				
Not Working	-0.1424	50.4242	-0.1232	50.4976
Work T1/No T2 Data	0.6431	49.9069	0.0735	50.1129
Work at T1/Not T2	-0.5672	50.6687	-0.3815	50.3860
Work at T2	0.1488	50.5381	0.0333	50.5266
	MSE =	11.36776	MSE =	10.73104
Infant Head Circumference (cm)				
W/o Adjusting for Duration of Gestation				
Not Working	0.1518	34.0303	0.1792*	33.9948
Work T1/No T2 Data	-0.4044	34.1679	-0.6450	34.2543
Work at T1/Not T2	0.0090	34.2637	-0.0086	34.2539
Work at T2	0.4371	34.0067	0.4284	33.9878
	MSE =	3.194144	MSE =	2.994804
Adjusting for Duration of Gestation				
Not Working	0.1950*	33.9441	0.2019**	33.9300
Work T1/No T2 Data	-0.1631	34.3110	-0.4313	34.3266
Work at T1/Not T2	0.0484	34.1031	0.0368	34.0157
Work at T2	0.4072	33.8870	0.3742	33.8478
	MSE =	2.848233	MSE =	2.684762
Stillbirth/1000 Births				
Not Working	-0.0069	0.0148	-0.0074	0.0110
Work T1/No T2 Data	0.0971**	0.0371	0.0952**	0.0418
Work at T1/Not T2	-0.0040	0.0075	-0.0045	0.0112
Work at T2	0.0092	-0.0009	0.0091	0.0021
	MSE =	0.01017472	MSE =	0.01014072

(continued)

Table V-E-4.14 (continued)

Employment Status	Partially Adjusted ^b		Fully Adjusted ^c	
	WIC	Control	WIC	Control
<u>Number of Subjects</u>				
<u>Employment Status</u>			<u>Total</u>	
Duration of Gestation				
Not Working	2,623	685	3,308	
Work at T1/No T2 Data	40	26	66	
Work at T1/not at T2	241	105	346	
Work at T2	233	91	324	
Total	3,137	907	4,044	
Birthweight				
Not Working	2,528	651	3,179	
Work at T1/No T2 Data	33	24	57	
Work at T1/Not at T2	235	103	338	
Work at T2	225	91	316	
Total	3,021	869	3,890	
Infant Length				
Not Working	2,376	616	2,992	
Work at T1/Not at T2	30	21	51	
Work at T1/Not at T2	217	96	313	
Work at T2	211	89	300	
Total	2,834	822	3,656	
Infant Head Circumference				
Not Working	2,147	578	2,725	
Work at T1/No T2 Data	27	18	45	
Work at T1/Not at T2	195	86	281	
Work at T2	194	82	276	
Total	2,563	764	3,327	
Stillbirths/1000 Births				
Not Working	2,666	695	3,361	
Work at T1/No T2 Data	45	27	72	
Work at T1/Not at T2	244	109	353	
Work at T2	237	92	329	
Total	3,192	923	4,115	

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aEntries in table are means for Control group and difference from Control group mean for WIC group.^bControlled for ethnicity and duration of gestation at registration into study.^cControlled for duration of gestation and maternal characteristics at registration into study. See Appendix V-E-1 for full covariate list.

Table V-E-5

Exclusions from analyses of duration of gestation and newborn anthropometry include:

1. Infants of diabetic women.
2. Multiple births.
3. Congenital anomalies possibly associated with fetal growth, including anomalies of the central nervous system, heart, lower gastrointestinal tract, urinary tract, absence of ribs, sternum or diaphragm, and chromosomal and multiple congenital anomalies.
4. Pre- and intra-partum fetal deaths^a.
5. Infants with the following recorded values for analyses in which the dependent variable is:
 - a. Gestation at delivery: <141 or >321 days.
 - b. Birthweight <1,000 or >5,460 grams.
 - c. Length: <25 centimeters.
 - d. Head circumference: <20 centimeters.

^aNot excluded in analyses of duration of gestation.

CHAPTER VI APPENDIXES

Table VI-A-1

Additional Sources of Nutrient Data

Manufacturers

General Foods
General Mills
Gerber Products co.
ITT Continental Baking Co., Inc .
Kelloggs Co.
Loma Linda Foods
McDonald's Corp.
Mead Johnson
Quaker foods
Ralston Purina
Ross Laboratories
Stokeley Van Camp
Tastykake, Inc.

Federal WIC Staff Contacted

Ruth Hirsch
Mary Sloan

Additional Data Base

Standard Reference File

Table VI-A-2

Foods Classified as WIC Foods

Milk

Whole Milk
Skim Milk
Non-fat Milk
Cultured Buttermilk
Evaporated Whole Milk
Evaporated Skimmed Milk
Dry Whole Milk
Non-fat or Low-fat Dry Milk

Cheese

Natural Swiss
Mozzarella (whole or skim)
Monterey Jack
Brick
Colby
Natural Cheddar
Muenster
Provolone
American

Eggs

Eggs, fresh
Dried Egg Mix
Eggs cooked Any Style (including w/fat)

Legumes

Mature Dry Beans or Peas
Lentils
Black Beans
Navy Beans
Kidney Beans
Garbanzo Beans
Soy Beans
Pinto Beans
Mung Beans
Crowder Beans
Cow Peas
Split Peas
Blackeyed Peas
Peanut Butter
Refried Beans
Homemade Pea or Bean Soup

Cereals

Body Buddies, Brown Sugar and Honey (General Mills)

(continued)

Table VI-A-2 (continued)

Body Buddies, Natural Fruit Flavor (General Mills)
Concentrate (Kelloggs)
Country Corn Flakes (General Mills)
Corn Total (General Mills)
Cream of Wheat, Regular (Nabisco)
Cream of Wheat, Quick (Nabisco)
Cream of Wheat, Instant (Nabisco)
Cream of Wheat, Mix'n Eat, Regular (Nabisco)
Fortified Oat Flakes (Post)
Kaboom (General Mills)
King Vitamin (Quaker Oats)
Kix (General Mills)
Malt-O-Meal, Chocolate Flavored (Malt-O-Meal)
Malt-O-Meal, Quick (Malt-O-Meal)
Maypo 30-Second Oatmeal (Standard Milling co.)
Maypo Vermont Style Hot Oat Cereal (Standard Milling Co.)
Most (Kelloggs)
Product 19 (Kelloggs)
Smart Start (Kelloggs)
Total (General Mills)
Wheat Hearts (General Mills)
40% Bran Flakes (Kelloggs)

Infant Cereals

All Dry Infant Cereals
(Minimum 45 mg. iron/100 gm dry cereal)

Juice

Orange Juice
Grapefruit Juice
Orange-Grapefruit Juice
All Infant Juices

Infant Formulas (Minimum 10 mg. iron/liter of formula)

Enfamil w/iron
Isomil
I-soyalac
Lofenalac
Meat Base Formula
Nursoy
Nutramigen
Portagen
Progestimil
Prosobee
Similac w/iron
Similac, advance
SMA
Soyalac

Table II-A-3

Children Reported to be on Special Diets,
by WIC Status

Diet Type	WIC Status			Total
	Current	Past	Never	
Weight loss	3	3	3	9
Weight gain	1	0	0	1
Diabetes	2	1	0	3
Celiac disease	0	0	0	0
Allergies	4	7	8	19
Other	5	2	2	9
Not specified	<u>5</u>	<u>5</u>	<u>17</u>	<u>27</u>
Total	20	18	30	68

Table VI-B-1.1

Multiple Regression Analysis: Total Daily Caloric Intake

Total daily caloric (kcal) intake controlled for age and sex

Variable	DF	Parameter estimate	Standard error	T ratio	Prob> T
INTERCEPT	1	876.247776	44.263406	19.7962	0.0001
KIDAGE	1	11.623149	2.992390	3.8842	0.0001
AGESQ	1	-0.055765	0.046911	-1.1888	0.2347
SEX	1	-46.469542	19.232649	-2.4162	0.0158
CATWIC1 ^a	1	7.126481	23.786772	0.2996	0.7645
CATWIC2 ^b	1	19.512309	23.606150	0.8266	0.4086
SSE	409392354	F Ratio	30.66		
DPE	2105	Prob>F	0.0001		
MSE	194485.7	R-square	0.0679		

Total daily caloric (kcal) intake controlled for all covariates

INTERCEPT	1	711.474953	139.026140	5.1176	0.0001
KIDAGE	1	8.127664	3.337859	2.4350	0.0150
AGESQ	1	-0.018101	0.047932	-0.3776	0.7057
SEX	1	-44.535731	19.301832	-2.3073	0.0211
CATETH1	1	-26.140360	30.141978	-0.8682	0.3859
CATETH2	1	-58.308205	25.870619	-2.2538	0.0243
CATETH3	1	-40.682511	57.330577	-0.7096	0.4780
INCOME	1	0.490455	0.275981	1.7771	0.0757
CATINC4	1	-37.109249	33.442793	-1.1096	0.2673
HHSIZE	1	-5.290592	5.775404	-0.9161	0.3597
MOMAGE	1	-3.827692	2.345682	-1.6318	0.1029
MOMED	1	-5.635037	5.580312	-1.0098	0.3127
FATED	1	4.062795	5.036478	0.8067	0.4199
CATFED3	1	-90.566059	42.466851	-2.1326	0.0331
CATMOCC1	1	-69.455472	72.884620	-0.9530	0.3407
CATMOCC2	1	-13.580381	24.964733	-0.5540	0.5865
CATMOCC3	1	49.079418	55.925720	0.8776	0.3803
CATMOCC4	1	-7.283732	26.100058	-0.2791	0.7802
CATFOCC1	1	37.100919	44.387912	0.8358	0.4033
CATFOCC2	1	11.375880	24.715499	0.4603	0.6454
CATFOCC3	1	25.228200	49.073476	0.5141	0.6072
CATFOCC4	1	53.812726	35.325151	1.5234	0.1278

(continued)

Table VI-B-1.1 (continued)

Total daily caloric (kcal) intake controlled for all covariates

Variable	DF	Parameter estimate	Standard error	T ratio	Prob> T
MARITAL	1	-7.360799	34.575019	-0.2129	0.8314
LIVWFAT	1	5.791306	36.077429	0.1605	0.8725
CATMEMP1	1	43.035106	32.399520	1.3283	0.1842
CATMEMP2	1	51.983647	26.985019	1.9264	0.0542
CATFEMP1	1	2.281303	21.888467	0.1042	0.9170
CATFEMP2	1	-27.192963	35.974728	-0.7559	0.4498
AFDC	1	71.334036	27.018485	2.6402	0.0083
MEDICAID	1	30.100547	25.299438	1.1898	0.2343
CATEDST	1	58.626253	23.772204	2.4662	0.0137
SCHFOOD	1	-106.810176	48.981469	-2.1806	0.029
USUAL	1	94.880953	23.632171	4.0149	0.000
HEIGHT	1	2.422530	1.430115	1.6939	0.0904
MISKIDHT	1	-9.396239	64.289080	-0.1462	0.8838
CATWIC1	1	-1.105244	24.294454	-0.0455	0.9637
CATWIC2	1	-0.214091	24.793248	-0.0086	0.9931
SSE	394847667	F Ratio	6.47		
DPE	2074	Prob>F	0.0001		
MSE	190379.8	R-square	0.1010		

^aCATWIC1 = Past WIC participation.^bCATWIC2 = Current WIC participation.

Table VI-B-1.2

Multiple Regression Analysis: Caloric Intake Per Day From Potential WIC Foods

Daily caloric (kcal) intake from potential WIC foods controlled for age and sex

Variable	DF	Parameter estimate	Standard error	T ratio	Prob> T
INTERCEPT	1	641.373306	23.253155	27.5822	0.0001
KIDAGE	1	-16.768941	1.572010	-10.6672	0.0001
AGESQ	1	0.208686	0.024644	8.4681	0.0001
SEX	1	-24.510250	10.103601	-2.4259	0.0154
CATWIC1 ^a	1	11.744727	12.496045	0.9399	0.3474
CATWIC2 ^b	1	45.420402	12.401158	3.6626	0.0003
SSE	112983194	F Ratio	50.26		
DPE	2105	Prob>F	0.0001		
MSE	53673.73	R-square	0.1067		

Total daily caloric (kcal) intake potential WIC foods controlled for all covariates

INTERCEPT	1	751.670300	72.864275	10.3160	0.0001
KIDAGE	1	-15.245460	1.749388	-8.7147	0.0001
AGESQ	1	0.196850	0.025122	7.8359	0.0001
SEX	1	-24.247730	10.116184	-2.3969	0.0166
CATETH1	1	53.751960	15.797557	3.4025	0.0007
CATETH2	1	-16.566987	13.558917	-1.2219	0.2219
CATETH3	1	37.650283	30.047234	1.2530	0.2103
INCOME	1	-0.088864	0.144643	-0.6144	0.5390
CATINC4	1	-23.573744	17.527530	-1.3450	0.1788
HHSIZE	1	-2.088186	3.026917	-0.6899	0.4904
MOMAGE	1	1.323741	1.229383	1.0768	0.2817
MOMED	1	-5.892928	2.924669	-2.0149	0.0440
FATED	1	-0.013899	2.639643	-0.0053	0.9958
CATFED3	1	-6.228503	22.257083	-0.2798	0.7796
CATMOCC1	1	-33.383616	38.199183	-0.8739	0.3823
CATMOCC2	1	-0.288529	13.084138	-0.0221	0.9824
CATMOCC3	1	-1.579442	29.310941	-0.0539	0.9570
CATMOCC4	1	16.088007	13.679167	1.1761	0.2397
CATFOCC1	1	14.457711	23.263920	0.6215	0.5344
CATFOCC2	1	-20.959413	12.953513	-1.6180	0.1058
CATFOCC3	1	-6.699675	25.719647	-0.2605	0.7945
CATFOCC4	1	-27.928714	18.514083	-1.5085	0.1316

(continued)

Table VI-B-1.2 (continued)

Total daily caloric (kcal) intake from potential WIC foods controlled for all covariates

Variable	DF	Parameter estimate	Standard error	T ratio	Prob> T
MARITAL	1	2.831969	18.120935	0.1563	0.8753
LIVWFAT	1	-39.917109	18.908355	-2.1111	0.0349
CATMEMP1	1	-1.388734	16.980746	-0.0818	0.9348
CATMEMP2	1	-17.561862	14.142979	-1.2417	0.2145
CATFEMP1	1	5.142548	11.471852	0.4483	0.6540
CATFEMP2	1	22.991310	18.854530	1.2194	0.2228
AFDC	1	25.528863	14.160519	1.8028	0.0716
MEDICAID	1	-22.508778	13.259558	-1.6976	0.0897
CATEDST	1	-4.634295	12.459127	-0.3720	0.7100
SCHFOOD	1	-19.916165	25.671426	-0.7758	0.4379
USUAL	1	46.412386	12.385735	3.7472	0.0002
HEIGHT	1	-1.155206	0.749530	-1.5412	0.1234
MISKIDHT	1	6.364661	33.694219	0.1889	0.8502
CATWIC1	1	8.628575	12.732841	0.6777	0.4981
CATWIC2	1	43.846227	12.994261	3.3743	0.0008
SSE	108459086	F Ratio	9.57		
DPE	2074	Prob>F	0.0001		
MSE	52294.64	R-square	0.1424		

^aCATWIC1 = Past WIC participation.

^bCATWIC2 = Current WIC participation.

Table VI-B-1.3

Multiple Regression Analysis: Total Daily Caloric Intake

Total daily iron (mg) intake controlled for age and sex

Variable	DF	Parameter estimate	Standard error	T ratio	Prob> T
INTERCEPT	1	19.358069	0.898703	21.5400	0.0001
KIDAGE	1	-0.674765	0.060756	-11.1061	0.0001
AGESQ	1	0.010471	0.000952452	10.9936	0.0001
SEX	1	-1.296474	0.390490	-3.3201	0.0009
CATWIC1 ^a	1	0.264794	0.482955	0.5483	0.5836
CATWIC2 ^b	1	3.035267	0.479288	6.3329	0.0001
SSE	168765	F Ratio	42.64		
DPE	2105	Prob>F	0.0001		
MSE	80.173387	R-square	0.0920		

Total daily iron (mg) intake controlled for all covariates

INTERCEPT	1	22.757809	2.849503	7.9866	0.0001
KIDAGE	1	-0.614358	0.068413	-8.9801	0.0001
AGESQ	1	0.010439	0.0009824269	10.6256	0.0001
SEX	1	-1.414729	0.395614	-3.5760	0.0004
CATETH1	1	-1.451473	0.617795	-2.3494	0.0189
CATETH2	1	-0.344907	0.530248	-0.6505	0.5155
CATETH3	1	-0.597319	1.175057	-0.5083	0.6113
INCOME	1	0.001540576	0.005656546	0.2724	0.7854
CATINC4	1	0.860677	0.685449	1.2556	0.2094
HHSIZE	1	-0.052358	0.118374	-0.4423	0.6583
MOMAGE	1	-0.011826	0.048077	-0.2460	0.8057
MOMED	1	0.074704	0.114375	0.6531	0.5137
FATED	1	0.059361	0.103228	0.5750	0.5653
CATFED3	1	-0.239048	0.870408	-0.2746	0.7836
CATMOCC1	1	0.591915	1.493855	0.3962	0.6920
CATMOCC2	1	-0.057610	0.511681	-0.1126	0.9104
CATMOCC3	1	0.907861	1.146263	0.7920	0.4284
CATMOCC4	1	-0.00372255	0.534951	-0.0070	0.9944
CATFOCC1	1	0.0327848	0.909782	0.3604	0.7186
CATFOCC2	1	-0.284645	0.506573	-0.5619	0.5742
CATFOCC3	1	-2.027878	1.005818	-2.0161	0.0439
CATFOCC4	1	-0.374846	0.724030	-0.5177	0.6047

(continued)

Table VI-B-1.3 (continued)

Total daily iron (mg) intake controlled for all covariates

Variable	DF	Parameter estimate	Standard error	T ratio	Prob> T
MARITAL	1	0.014557	0.708655	0.0205	0.9836
LIVWFAT	1	0.227483	0.739449	0.3076	0.7584
CATMEMP1	1	0.530888	0.664066	0.7995	0.4241
CATMEMP2	1	-0.211387	0.553089	-0.3822	0.7024
CATFEMP1	1	0.071688	0.448630	0.1597	0.8731
CATFEMP2	1	-0.196548	0.737344	-0.2666	0.7898
AFDC	1	1.017306	0.553775	1.8370	0.0663
MEDICAID	1	-0.597643	0.518541	-1.1525	0.2492
CATEDST	1	0.950897	0.487239	1.9516	0.0511
SCHFOOD	1	-1.399195	1.003932	-1.3937	0.1636
USUAL	1	0.604548	0.484369	1.2481	0.2121
HEIGHT	1	-0.075599	0.029312	-2.5791	0.0100
MISKIDHT	1	-0.397393	1.317680	-0.3016	0.7630
CATWIC1	1	0.096551	0.497943	0.1939	0.8463
CATWIC2	1	2.527699	0.508167	4.9742	0.0001
SSE	165872.7	F Ratio	6.94		
DPE	2074	Prob>F	0.0001		
MSE	79.977175	R-square	0.1075		

^aCATWIC1 = Past WIC participation.^bCATWIC2 = Current WIC participation.

Table VI-B-1.4

Multiple Regression Analysis: Total Daily Iron Intake Controlled for Calories

Total daily iron (mg) intake controlled for calories, age and sex

Variable	DF	Parameter estimate	Standard error	T ratio	Prob> T
INTERCEPT	1	12.221274	0.896798	13.6277	0.0001
NUT1	1	0.008144722	0.000405462	20.0875	0.0001
KIDAGE	1	-0.769432	0.055866	-13.7729	0.0001
AGESQ	1	0.010925	0.0008729587	12.5150	0.0001
SEX	1	-0.917992	0.358275	-2.5623	0.0105
CATWIC1 ^a	1	0.206751	0.442508	0.4672	0.6404
CATWIC1 ^b	1	2.876345	0.439210	6.5489	0.0001

SSE	141607.3	F Ratio	109.58
DPE	2104	Prob>F	0.0001
MSE	67.303862	R-square	0.2381

Total daily iron (mg) intake controlled for calories and all covariates

INTERCEPT	1	16.891384	2.625805	6.4328	0.0001
NUT1	1	0.008245441	0.0004121324	20.0068	0.0001
KIDAGE	1	-0.681375	0.062738	-10.8607	0.0001
AGESQ	1	0.010588	0.0008996709	11.7689	0.0001
SEX	1	-1.047512	0.362741	-2.8878	0.0039
CATETH1	1	-1.235934	0.565837	-2.1843	0.0291
CATETH2	1	0.135870	0.486160	0.2795	0.7799
CATETH3	1	-0.261874	1.076168	-0.2433	0.8078
INCOME	1	-0.00250344	0.005183824	-0.4829	0.6292
CATINC4	1	1.166659	0.627874	1.8581	0.0633
HHSIZE	1	-0.00873512	0.108420	-0.0806	0.9358
MOMAGE	1	0.019735	0.044054	0.4480	0.6542
MOMED	1	0.121167	0.104763	1.1566	0.2476
FATED	1	0.025862	0.094544	0.2735	0.7845
CATFED3	1	0.507709	0.797934	0.6363	0.5247
CATMOCC1	1	1.164606	1.368271	0.8512	0.3948
CATMOCC2	1	0.054366	0.468596	0.1160	0.9076
CATMOCC3	1	0.503180	1.049865	0.4793	0.6318
CATMOCC4	1	0.056335	0.489881	0.1150	0.9085
CATFOCC1	1	0.021935	0.833257	0.0263	0.9790
CATFOCC2	1	-0.378444	0.463909	-0.8158	0.4147
CATFOCC3	1	-2.235895	0.921119	-2.4274	0.0153
CATFOCC4	1	-0.818556	0.663389	-1.2339	0.2174

(continued)

Table VI-B-1.4 (continued)

Total daily iron (mg) intake controlled for calories and all covariates

Variable	DF	Parameter estimate	Standard error	T ratio	Prob> T
MARITAL	1	0.075250	0.648946	0.1160	0.9077
LIVWFAT	1	0.179731	0.677141	0.2654	0.7907
CATMEMP1	1	0.176044	0.608365	0.2894	0.7723
CATMEMP2	1	-0.640015	0.506935	-1.2625	0.2069
CATFEMP1	1	0.052857	0.410826	0.1287	0.8976
CATFEMP2	1	0.027670	0.675303	0.0410	0.9673
AFDC	1	0.429125	0.507961	0.8448	0.3983
MEDICAID	1	-0.845836	0.475007	-1.7807	0.0751
CATEDST	1	0.467497	0.446834	1.0462	0.2956
SCHFOOD	1	-0.518498	0.920386	-0.5633	0.5733
USUAL	1	-0.177788	0.445273	-0.3993	0.6897
HEIGHT	1	-0.095574	0.026860	-3.5582	0.0004
MISKIDHT	1	-0.319917	1.206648	-0.2651	0.7909
CATWIC1	1	0.105665	0.455983	0.2317	0.8168
CATWIC2	1	2.529464	0.465344	5.4357	0.0001
SSE	394847667	F Ratio	6.47		
DPE	2074	Prob>F	0.0001		
MSE	190379.8	R-square	0.1010		

^aCATWIC1 = Past WIC participation.^bCATWIC2 = Current WIC participation.

Table VI-B-1.5

Multiple Regression Analysis: Iron Intake Per Day From Potential WIC Foods

Daily iron (mg) intake from potential WIC foods controlled for age and sex

Variable	DF	Parameter estimate	Standard error	T ratio	Prob> T
INTERCEPT	1	15.258465	0.93608	16.2392	0.0001
KIDAGE	1	-0.774174	0.063521	-12.1876	0.0001
AGESQ	1	0.010716	0.0009958031	10.7609	0.0001
SEX	1	-0.988223	0.408264	-2.4205	0.0156
CATWIC1 ^a	1	0.439189	0.504937	0.8698	0.3845
CATWIC2 ^b	1	3.707290	0.501103	7.3983	0.0001
SSE	184477.4	F ratio	62.19		
DPE	2105	Prob>F	0.0001		
MSE	87.637706	R-square	0.1287		

Daily iron (mg) intake from potential WIC foods controlled for all covariates

INTERCEPT	1	21.025660	2.977208	7.0622	0.0001
KIDAGE	1	-0.672408	0.071479	-9.4070	0.0001
AGESQ	1	0.010228	0.001026456	9.9645	0.0001
SEX	1	-1.109435	0.413344	-2.6840	0.0073
CATETH1	1	0.054151	0.645483	0.0839	0.9332
CATETH2	1	0.096078	0.554012	0.1734	0.8623
CATETH3	1	0.429519	1.227719	0.3499	0.7265
INCOME	1	-0.00226033	0.005910053	-0.3825	0.7022
CATINC4	1	0.034404	0.716169	0.0480	0.9617
HHSIZE	1	0.002938684	0.123679	0.0238	0.9810
MOMAGE	1	0.013317	0.050232	0.2651	0.7909
MOMED	1	0.053712	0.119501	0.4495	0.6531
FATED	1	0.068465	0.107855	0.6348	0.5256
CATFED3	1	1.018312	0.909416	1.1197	0.2630
CATMOCC1	1	0.555849	1.560805	0.3561	0.7218
CATMOCC2	1	0.258694	0.534613	0.4839	0.6285
CATMOCC3	1	0.601614	1.197635	0.5023	0.6155
CATMOCC4	1	0.199882	0.558926	0.3576	0.7207
CATFOCC1	1	0.287906	0.950555	0.3029	0.7620
CATFOCC2	1	-0.826485	0.529276	-1.5615	0.1185
CATFOCC3	1	-2.041502	1.050896	-1.9426	0.0522
CATFOCC4	1	-1.404624	0.756479	-1.8568	0.0635

(continued)

Table VI-B-1.5 (continued)

Daily iron (mg) intake from potential WIC foods controlled for covariates

Variable	DF	Parameter estimate	Standard error	T ratio	Prob> T
MARITAL	1	0.551498	0.740415	0.7448	0.4564
LIVWFAT	1	-1.247029	0.772589	-1.6141	0.1067
CATMEMP1	1	-0.257955	0.693827	-0.3718	0.7101
CATMEMP2	1	-1.089837	0.577877	-1.8859	0.0594
CATFEMP1	1	0.291951	0.468736	0.6228	0.5335
CATFEMP2	1	1.177475	0.770389	1.5284	0.1266
AFDC	1	-0.019491	0.578594	-0.0337	0.9731
MEDICAID	1	-1.342829	0.541781	-2.4785	0.0133
CATFDST	1	0.776928	0.509075	1.5262	0.1271
SCHFOOD	1	-1.398251	1.048925	-1.3330	0.1827
USUAL	1	-0.175337	0.506077	-0.3465	0.7290
HEIGHT	1	-0.098438	0.030626	-3.2143	0.0013
MISKIDHT	1	-0.179679	1.376734	-0.1305	0.8962
CATWIC1	1	0.279032	0.520259	0.5363	0.5918
CATWIC2	1	3.398222	0.530941	6.4004	0.0001
SSE	181073.6	F ratio	9.75		
DPE	2074	Prob>F	0.0001		
MSE	87.306442	R-square	0.1448		

^aCATWIC1 = Past WIC participation.^bCATWIC2 = Current WIC participation.

Table VI-B-2.1

Dietary Intake from 24-Hour Dietary Recalls

		Current WIC	Past WIC	Controls
<u>For all study subjects</u>				
Calories (kcal)				
Total	Age and sex adjusted ^a	19.5123	7.1265	1123.4715
	Fully adjusted	-0.2141	-1.1052	1132.5995
From potential WIC foods	Age and sex adjusted	45.4204***	11.7447	366.8179
	Fully adjusted	43.8462***	8.6286	368.2884
Protein (g)				
Total	Age and sex adjusted	-0.7070	0.5328	40.9712
	Fully adjusted	-1.3886	-0.0383	41.3731
From potential WIC foods	Age and sex adjusted	-0.7239	0.2284	18.6282
	Fully adjusted	-0.6492	0.2378	18.6003
Total adjusted for caloric intake	Age and sex adjusted	-1.3826*	0.2861	41.2732
	Fully adjusted	-1.3812*	-0.0001	41.3591
Fat (g)				
Total	Age and sex adjusted	1.1340	0.4667	41.9575
	Fully adjusted	0.2060	-0.0685	42.4315
From potential WIC foods	Age and sex adjusted	1.3555*	0.5070	17.6914
	Fully adjusted	1.1692	0.3004	17.8165
Total adjusted for caloric intake	Age and sex adjusted	0.3450	0.1785	42.3102
	Fully adjusted	0.2147	-0.0239	42.4152
Carbohydrates (g)				
Total	Age and sex adjusted	0.8785	0.5331	148.5336
	Fully adjusted	-0.8318	0.6278	149.0811
From potential WIC foods	Age and sex adjusted	6.9656***	1.2896	33.6777
	Fully adjusted	7.1167***	1.0124	33.7105
Total adjusted for caloric intake	Age and sex adjusted	-1.6189	-0.3790	149.6500
	Fully adjusted	-0.8043	0.7695	149.0291
Calcium (mg)				
Total	Age and sex adjusted	-30.2440	-3.1067	705.6970
	Fully adjusted	-30.2427	8.0894	702.3181
From potential WIC foods	Age and sex adjusted	-28.4379	4.3496	520.9870
	Fully adjusted	-24.7530	12.1544	517.3907
Total adjusted for caloric intake	Age and sex adjusted	-40.1583*	-6.7277	710.1288
	Fully adjusted	-30.1340	8.6503	702.1122
Iron (mg)				
Total	Age and sex adjusted	3.0353***	0.2648	10.2235
	Fully adjusted	2.5277***	0.0966	10.4452
From potential WIC foods	Age and sex adjusted	3.7073***	0.4392	3.7334
	Fully adjusted	3.3982***	0.2790	3.8858
Total adjusted for caloric intake	Age and sex adjusted	2.8763***	0.2068	10.2946
	Fully adjusted	2.5295***	0.1057	10.4419
Magnesium (mg)				
Total	Age and sex adjusted	-3.6749	-1.7187	163.7129
	Fully adjusted	-4.7155	-1.0535	163.8626
From potential WIC foods	Age and sex adjusted	-0.0260	0.5266	76.9780
	Fully adjusted	0.1955	0.6449	76.8678
Total adjusted for caloric intake	Age and sex adjusted	-6.2627*	-2.6638	164.8697
	Fully adjusted	-4.6871	-0.9069	163.8089

(continued)

Table VI-B-2.1 (Continued)

		Current WIC	Past WIC	Controls
Phosphorus (mg)				
Total	Age and sex adjusted	-35.8524	-1.9876	806.4020
	Fully adjusted	-39.2101	2.6413	806.1362
From potential WIC foods	Age and sex adjusted	-25.7853	4.9544	466.9927
	Fully adjusted	-22.2307	8.5878	464.6991
Total adjusted for caloric intake	Age and sex adjusted	-48.3979***	-6.5696	812.0101
	Fully adjusted	-39.0724**	3.3521	805.8753
Vitamin A (I.U.)				
Total	Age and sex adjusted	412.4297	417.2503	3665.3838
	Fully adjusted	331.3707	489.5295	3670.8746
From potential WIC foods	Age and sex adjusted	507.2335***	120.5119	985.4729
	Fully adjusted	470.5938***	94.4002	1005.6927
Total adjusted for caloric intake	Age and sex adjusted	359.0238	397.7448	3689.2572
	Fully adjusted	331.9688	492.6169	3669.7416
Thiamin (mg)				
Total	Age and sex adjusted	0.1133***	0.0270	0.9702
	Fully adjusted	0.0754*	0.0072	0.9889
From potential WIC foods	Age and sex adjusted	0.1596***	0.0315	0.3468
	Fully adjusted	0.1482***	0.0231	0.3532
Total adjusted for caloric intake	Age and sex adjusted	0.0981***	0.0214	0.9770
	Fully adjusted	0.0756**	0.0081	0.9886
Riboflavin (mg)				
Total	Age and sex adjusted	0.0585	0.0547	1.5011
	Fully adjusted	0.0346	0.0612	1.5072
From potential WIC foods	Age and sex adjusted	0.1206**	0.0384	0.8132
	Fully adjusted	0.1121**	0.0370	0.8164
Total adjusted for caloric intake	Age and sex adjusted	0.0362	0.0465	1.5111
	Fully adjusted	0.0348	0.0625	1.5067
Niacin (mg)				
Total	Age and sex adjusted	1.4412***	0.2873	10.6954
	Fully adjusted	0.9215*	0.0136	10.9530
From potential WIC foods	Age and sex adjusted	2.0560***	0.3404	2.2692
	Fully adjusted	1.8800***	0.2557	2.3540
Total adjusted for caloric intake	Age and sex adjusted	1.2567***	0.2199	10.7779
	Fully adjusted	0.9235*	0.0241	10.9492
Vitamin B6 (mg)				
Total	Age and sex adjusted	0.0883**	0.0401	1.0239
	Fully adjusted	0.0754	0.0264	1.0324
From potential WIC foods	Age and sex adjusted	0.1673***	0.0452	0.3148
	Fully adjusted	0.1572	0.0330	0.3219
Total adjusted for caloric intake	Age and sex adjusted	0.0713*	0.0340	1.0314
	Fully adjusted	0.0756*	0.0273	1.0320
Vitamin B12 (mcg)				
Total	Age and sex adjusted	0.3483	0.5082	3.2184
	Fully adjusted	0.2488	0.5605	3.2361
From potential WIC foods	Age and sex adjusted	0.3611**	0.1475	1.8998
	Fully adjusted	0.3316	0.1200	1.9180
Total adjusted for caloric intake	Age and sex adjusted	0.2936	0.4882	3.2428
	Fully adjusted	0.2494	0.5636	3.2349
Vitamin C (mg)				
Total	Age and sex adjusted	12.3880**	-1.3843	91.9625
	Fully adjusted	13.1072**	-2.8831	92.1725
From potential WIC foods	Age and sex adjusted	16.2799***	1.2852	38.5747
	Fully adjusted	17.6922***	0.5233	38.3290
Total adjusted for caloric intake	Age and sex adjusted	11.3418**	-1.7665	92.4302
	Fully adjusted	13.1191**	-2.8217	92.1500
n		711	637	763

(continued)

Table VI-B-2.1 (continued)

	Age and sex adjusted WIC status			Fully adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>For Infants Only</u>						
Calories (kcal)						
Total	32.41	121.37	884.76	23.16	71.52	895.78
From potential WIC foods	96.16**	50.59	475.74	82.85**	15.55	487.61
Protein (g)						
Total	-4.72*	7.11*	32.38	-5.37**	3.83	33.13
From potential WIC foods	-3.36*	4.32	21.17	-4.46**	1.54	22.14
Total adjusted for caloric intake	-5.74**	3.31	33.41	-6.11**	1.54	33.83
Fat (g)						
Total	3.92*	3.51	34.11	2.17	0.09	35.54
From potential WIC foods	5.53**	1.75	22.44	4.27*	-0.56	23.45
Total adjusted for caloric intake	2.64*	-1.29	35.41	1.26	-2.73	36.40
Carbohydrates (g)						
Total	-5.39	17.04	110.56	-2.95	14.19	109.40
From potential WIC foods	5.99	5.69	44.43	7.05*	4.09	43.96
Total adjusted for caloric intake	-9.40**	2.03	114.62	-5.80	5.41	112.07
Calcium (mg)						
Total	-196.63**	74.52	832.46	-223.78**	5.02	856.47
From potential WIC foods	-184.10**	81.15	722.36	-222.00**	-0.19	754.16
Total adjusted for caloric intake	-213.60**	10.94	849.66	-236.36**	-33.83	868.31
Iron (mg)						
Total	7.68**	-0.20	13.73	7.85**	0.77	13.52
From potential WIC foods	7.91**	-0.16	9.40	8.05**	0.98	9.18
Total adjusted for caloric intake	7.17**	-2.13	14.25	7.48**	-0.36	13.87
Magnesium (mg)						
Total	-24.04**	25.29*	146.24	-23.35**	16.68	146.76
From potential WIC foods	-13.84*	22.82*	92.12	-17.17**	11.58	95.36
Total adjusted for caloric intake	-28.29**	9.36	150.55	-26.40**	7.26	149.63
Phosphorus (mg)						
Total	-175.33**	142.03*	751.58	-197.02**	71.31	772.41
From potential WIC foods	-152.12**	111.24	573.41	-183.98**	44.67	599.94
Total adjusted for caloric intake	-193.71**	73.19	770.21	-210.56**	29.49	785.16
Vitamin A (I.U.)						
Total	-434.38	2383.24*	4207.94	-19.20	2461.47*	3948.05
From potential WIC foods	562.25**	252.92	1167.29	499.22**	138.56	1217.90
Total adjusted for caloric intake	-544.90	1969.33	4319.90	-98.25	2217.28*	4022.49
Thiamin (mg)						
Total	0.08	0.09	0.84	0.06	0.06	0.85
From potential WIC foods	0.12*	0.07	0.53	0.11*	0.08	0.53
Total adjusted for caloric intake	0.06	-0.01	0.86	0.04	0.00	0.87
Riboflavin (mg)						
Total	-0.13	0.24	1.52	-0.18	0.15	1.56
From potential WIC foods	-0.09	0.14	1.14	-0.14	0.06	1.18
Total adjusted for caloric intake	-0.17*	0.10	1.56	-0.21*	0.06	1.59

(continued)

Table VI-B-2.1 (continued)

	Age and sex adjusted WIC status			Fully adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Niacin(mg)						
Total	1.10	1.62	8.03	1.03	1.54	8.09
From potential WIC foods	1.73**	0.86	3.89	1.90**	1.26	3.74
Total adjusted for caloric intake	0.83	0.61	8.31	0.84	0.96	8.26
Vitamin B6 (mg)						
Total	0.03	0.20*	0.68	0.05	0.22*	0.66
From potential WIC foods	0.06	0.13**	0.33	0.05	0.09	0.33
Total adjusted for caloric intake	0.00	0.11	0.70	0.03	0.16*	0.68
Vitamin B12 (mcg)						
Total	-0.07	3.11**	2.56	0.08	2.93*	2.48
From potential WIC foods	-0.33*	0.54*	2.14	-0.47**	0.23	2.25
Total adjusted for caloric intake	-0.14	2.85*	2.63	0.03	2.75*	2.54
Vitamin C (mg)						
Total	17.10	-1.04	93.47	27.40**	12.84	85.72
From potential WIC foods	26.10**	-4.59	46.30	34.36**	3.11	40.47
Total adjusted for caloric intake	14.33	-11.45	96.28	25.28*	6.28	87.72
n	178	32	84	178	32	84

Table VI-B-2.1 (continued)

	Age and sex adjusted WIC status			Fully adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
For Children Only						
Calories (kcal)						
Total	25.51	0.96	1159.12	4.91	-6.93	1167.78
From potential WIC foods	33.68*	7.67	348.34	36.82**	5.22	348.24
Protein (g)						
Total	0.81	0.40	42.24	-0.06	-0.21	42.70
From potential WIC foods	0.17	0.15	18.17	0.28	0.17	18.13
Total adjusted for caloric intake	-0.07	0.36	42.51	-0.23	0.03	42.67
Fat (g)						
Total	0.78	0.21	43.09	0.03	-0.15	43.43
From potential WIC foods	0.42	0.28	16.84	0.47	0.17	16.86
Total adjusted for caloric intake	-0.25	0.17	43.41	-0.17	0.13	43.39
Carbohydrates (g)						
Total	3.61	-0.04	154.39	1.32	-0.23	155.12
From potential WIC foods	7.11**	1.09	31.98	7.69**	0.73	31.93
Total adjusted for caloric intake	0.34	-0.16	155.39	0.69	0.66	155.01
Calcium (mg)						
Total	14.70	1.18	685.51	9.63	11.40	683.59
From potential WIC foods	12.60	7.97	489.06	15.03	15.23	485.93
Total adjusted for caloric intake	1.96	0.70	689.40	7.18	14.85	683.16
Iron (mg)						
Total	1.61**	0.05	9.70	1.24**	-0.12	9.86
From potential WIC foods	2.35**	0.25	2.88	2.24**	0.07	2.97
Total adjusted for caloric intake	1.40**	0.04	9.76	1.20**	-0.07	9.86
Magnesium (mg)						
Total	2.91	-2.19	166.28	0.95	-1.77	166.72
From potential WIC foods	4.15	-0.05	74.46	4.69	0.18	74.22
Total adjusted for caloric intake	-0.45	-2.31	167.31	0.30	-0.86	166.61
Phosphorus (mg)						
Total	7.85	-2.77	813.84	-1.23	0.93	815.27
From potential WIC foods	10.24	5.41	449.56	13.27	8.68	447.58
Total adjusted for caloric intake	-8.45	-3.38	818.82	-4.36	5.35	814.72
Vitamin A (I.U.)						
Total	638.47*	341.49	3584.85	486.34	357.43	3624.17
From potential WIC foods	489.18**	110.40	957.00	470.65**	78.52	973.05
Total adjusted for caloric intake	570.24*	338.93	3605.72	472.91	376.36	3621.80
Thiamin (mg)						
Total	0.12**	0.02	0.99	0.08*	0.00	1.01
From potential WIC foods	0.16**	0.03	0.32	0.15**	0.02	0.33
Total adjusted for caloric intake	0.10**	0.02	1.00	0.07**	0.01	1.01
Riboflavin (mg)						
Total	0.11	0.05	1.50	0.08	0.06	1.51
From potential WIC foods	0.17**	0.04	0.76	0.16**	0.04	0.77
Total adjusted for caloric intake	0.08	0.05	1.51	0.07	0.07	1.51

(continued)

Table VI-B-2.1 (continued)

	Age and sex adjusted WIC status			Fully adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Niacin (mg)						
Total	1.48**	0.21	11.15	0.94*	-0.07	11.40
From potential WIC foods	2.01**	0.31	2.05	1.89**	0.19	2.13
Total adjusted for caloric intake	1.23**	0.20	11.23	0.90*	-0.01	11.39
Vitamin B6 (mg)						
Total	0.11*	0.03	1.08	0.10*	0.02	1.09
From potential WIC foods	0.19**	0.05	0.31	0.19**	0.03	0.32
Total adjusted for caloric intake	0.09*	0.03	1.08	0.09*	0.02	1.09
Vitamin B12 (mcg)						
Total	0.56	0.38	3.30	0.39	0.42	3.34
From potential WIC foods	0.54**	0.16	1.87	0.52**	0.12	1.89
Total adjusted for caloric intake	0.49	0.38	3.32	0.38	0.44	3.34
Vitamin C (mg)						
Total	10.45*	-1.72	91.93	11.85*	-3.36	92.07
From potential WIC foods	13.44**	1.16	37.34	15.83**	0.26	36.94
Total adjusted for caloric intake	9.11	-1.78	92.34	11.58*	-2.98	92.02

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship. See Vol. II, Table VI-1 for full covariate list. Values are differences from the control group means by current or past receipt of WIC benefits.

Table VI-B-2.2

Proportion of Children with Diets below 100 Percent of the
Recommended Energy Intake and Below 77 Percent of the
Recommended Dietary Allowances

	Age and sex adjusted WIC status			Fully adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>For All Study Subjects</u>						
Calories (kcal)	-0.028	-0.025	0.643	-0.008	-0.011	0.632
Protein (g)	0.000	-0.008	0.065	0.001	-0.008	0.065
Calcium (mg)	-0.011	0.019	0.397	-0.004	0.012	0.397
Iron (mg)	-0.145***	-0.008	0.700	-0.139***	-0.006	0.698
Magnesium (mg)	0.002	0.008	0.213	0.007	0.004	0.212
Phosphorus (mg)	-0.012	-0.011	0.230	-0.016	-0.020	0.235
Vitamin A (I.U.)	-0.060**	0.001	0.256	-0.070**	-0.011	0.263
Thiamin (mg)	-0.011	-0.014	0.123	-0.005	-0.012	0.120
Riboflavin (mg)	-0.029*	-0.018	0.102	-0.036*	-0.025	0.106
Niacin (mg)	-0.067**	0.003	0.327	-0.041	0.014	0.315
Vitamin B6 (mg)	-0.029	-0.025	0.316	-0.029	-0.024	0.315
Vitamin B12 (mcg)	-0.029	-0.018	0.208	-0.037	-0.030	0.214
Vitamin C (mg)	-0.050*	0.004	0.254	-0.059*	0.006	0.256
n	711	637	763	711	637	763
<u>For Infants Only</u>						
Calories (kcal)	-0.075	-0.205*	0.592	-0.070	-0.116	0.579
Protein (g)	-0.010	0.016	0.048	-0.008	0.030	0.046
Calcium (mg)	0.064	-0.019	0.137	0.103*	0.071	0.103
Iron (mg)	-0.263**	0.134	0.526	-0.287**	0.100	0.544
Magnesium (mg)	0.031	-0.036	0.033	0.043	0.004	0.021
Phosphorus (mg)	0.000	-0.066	0.089	0.013	-0.008	0.075
Vitamin A (I.U.)	-0.058	0.070	0.174	-0.112*	0.038	0.210
Thiamin (mg)	-0.035	0.023	0.070	-0.029	0.047	0.064
Riboflavin (mg)	-0.015	-0.048	0.045	-0.011	-0.042	0.042
Niacin (mg)	-0.087	-0.062	0.393	-0.076	-0.031	0.382
Vitamin B6 (mg)	0.068	-0.069	0.177	0.104*	0.022	0.146
Vitamin B12 (mcg)	-0.011	-0.007	0.127	-0.035	0.008	0.139
Vitamin C (mg)	-0.109*	0.016	0.197	-0.105*	-0.002	0.196
n	178	32	84	178	32	84
<u>For Children Only</u>						
Calories (kcal)	-0.028	-0.013	0.656	-0.009	0.002	0.645
Protein (g)	0.002	-0.010	0.069	0.005	-0.010	0.068
Calcium (mg)	-0.031	0.017	0.439	-0.023	0.011	0.439
Iron (mg)	-0.101**	-0.009	0.725	-0.103**	-0.009	0.726
Magnesium (mg)	-0.009	0.009	0.255	0.022	0.019	0.259
Phosphorus (mg)	-0.019	-0.009	0.255	-0.022	0.012	0.272
Vitamin A (I.U.)	-0.056*	-0.003	0.268	-0.059*	-0.012	0.272
Thiamin (mg)	-0.004	-0.015	0.131	0.004	-0.015	0.129
Riboflavin (mg)	-0.033	-0.017	0.110	-0.039*	-0.025	0.115
Niacin (mg)	-0.058*	0.009	0.315	-0.038	0.018	0.306
Vitamin B6 (mg)	-0.049	-0.025	0.335	-0.052*	-0.027	0.337
Vitamin B12 (mcg)	-0.035	-0.020	0.221	-0.040	-0.030	0.226
Vitamin C (mg)	-0.032	0.006	0.262	-0.045	0.007	0.266
n	533	605	679	533	605	679

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aDeficient diet defined as <100 percent of the RDA for calories or <77 percent for other nutrients.^bAge adjustment includes second order term (age²) to account for nonlinearity of relationship; see Vol. II, Table VI-1 for full covariate list. Values are differences from the control group means.

Table VI-B-2.3

Nutrient Intakes for Several Foods Included in WIC Benefits

	Age and sex adjusted WIC status			Fully adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>For All Study Subjects</u>						
<u>WIC Juices</u>						
Calories (kcal)	6.365	-0.323	31.017	8.327*	-0.834	30.510
Protein (g)	0.070	0.003	0.438	0.089	-0.011	0.436
Fat (g)	0.013	-0.001	0.070	0.018*	-0.002	0.068
Carbohydrate (g)	1.534	-0.082	7.402	2.008*	-0.200	7.278
Calcium (mg)	1.199	-0.048	6.101	1.577*	-0.158	6.007
Iron (mg)	0.021*	-0.004	0.087	0.030**	-0.003	0.084
Magnesium (mg)	1.149	-0.018	6.564	1.490	-0.175	6.497
Phosphorus (mg)	1.721	0.024	10.234	2.200	-0.265	10.160
Vitamin A (IU)	21.355	1.331	123.332	26.719	-2.829	122.781
Thiamin (mg)	0.009	0.000	0.056	0.012	-0.001	0.056
Riboflavin (mg)	0.001	-0.000	0.007	0.002*	-0.000	0.007
Niacin (mg)	0.033	0.001	0.190	0.042	-0.005	0.189
Vitamin B6 (mg)	0.005*	-0.000	0.021	0.006*	-0.000	0.021
Vitamin B12 (mcg)	0.000	0.000	0.000	0.000	0.000	0.000
Vitamin C (mg)	7.248*	-0.406	31.664	9.520*	-0.800	31.017
<u>WIC Cereals</u>						
Calories (kcal)	19.115***	3.262	15.263	18.463***	2.370	15.752
Protein (g)	0.360**	-0.017	0.480	0.346**	-0.024	0.487
Fat (g)	0.149***	0.014	0.152	0.136**	0.006	0.159
Carbohydrate (g)	4.136***	0.782	3.049	4.030***	0.584	3.145
Calcium (mg)	8.214*	-0.683	13.496	7.354*	-0.512	13.734
Iron (mg)	1.880***	0.218	1.870	1.747***	0.147	1.936
Magnesium (mg)	2.504**	-0.334	3.827	2.331*	-0.380	3.899
Phosphorus (mg)	9.376**	-0.745	12.615	8.975**	-0.706	12.738
Vitamin A (IU)	381.148***	95.107	131.992	351.584***	68.966	149.838
Thiamin (mg)	0.121***	0.022	0.085	0.111***	0.016	0.090
Riboflavin (mg)	0.140***	0.026	0.083	0.129***	0.018	0.089
Niacin (mg)	1.645***	0.300	1.074	1.527***	0.222	1.137
Vitamin B6 (mg)	0.160***	0.038	0.061	0.148***	0.027	0.068
Vitamin B12 (mcg)	0.463***	0.108	0.166	0.428***	0.072	0.189
Vitamin C (mg)	4.467***	1.093	1.447	4.097***	0.776	1.668

(continued)

Table VI-B-2.3 (continued)

	Age and sex adjusted WIC status			Fully adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>For All Study Subjects</u>						
<u>Other WIC Foods</u>						
Calories (kcal)	-7.828	0.315	74.162	-7.308	-2.914	74.961
Protein (g)	-0.427	0.106	4.479	-0.425	-0.112	4.544
Fat (g)	-0.546	-0.037	4.656	-0.502	-0.193	4.689
Carbohydrate (g)	-0.275	0.039	3.676	-0.272	-0.187	3.743
Calcium (mg)	-3.388	0.321	27.216	-2.892	-1.442	27.581
Iron (mg)	-0.076	0.015	0.823	-0.070	-0.030	0.835
Magnesium (mg)	-1.177	0.277	14.825	-1.342	-0.291	15.052
Phosphorus (mg)	-7.051	1.975	73.754	-6.852	-1.853	74.843
Vitamin A (IU)	-10.924	9.168	135.297	-11.717	-0.619	138.518
Thiamin (mg)	-0.002	0.003	0.035	-0.003	0.000	0.036
Riboflavin (mg)	-0.007	0.004	0.080	-0.008	-0.001	0.082
Niacin (mg)	-0.026	-0.014	0.473	-0.047	-0.011	0.479
Vitamin B6 (mg)	-0.007	0.004	0.065	-0.006	0.000	0.065
Vitamin B12 (mcg)	-0.025	0.020	0.303	-0.026	0.001	0.309
Vitamin C (mg)	0.008	0.033	-0.002	0.021	0.041	-0.009
<u>WIC Dairy</u>						
Calories (kcal)	27.447**	8.521	246.389	23.969*	9.990	247.118
Protein (g)	-0.735	0.138	13.231	-0.669	0.384	13.135
Fat (g)	1.718**	0.533	12.814	1.490**	0.488	12.904
Carbohydrate (g)	1.547*	0.552	19.552	1.322	0.815	19.548
Calcium (mg)	-34.488	4.762	474.174	-30.823	14.265	470.072
Iron (mg)	1.880***	0.211	0.952	1.688***	0.165	1.031
Magnesium (mg)	-2.574	0.608	51.766	-2.373	1.487	51.433
Phosphorus (mg)	-29.980*	3.713	370.396	-26.736	11.404	366.982
Vitamin A (IU)	115.641***	14.907	594.851	103.990***	28.882	594.558
Thiamin (mg)	0.031***	0.006	0.171	0.028***	0.008	0.171
Riboflavin (mg)	-0.013	0.009	0.643	-0.011	0.020	0.639
Niacin (mg)	0.404***	0.053	0.532	0.358***	0.050	0.549
Vitamin B6 (mg)	0.009	0.003	0.168	0.008	0.006	0.168
Vitamin B12 (mcg)	-0.078	0.020	1.431	-0.070	0.047	1.420
Vitamin C (mg)	4.557***	0.565	5.465	4.054***	0.506	5.653
n	711	637	763	711	637	763

(continued)

Table VI-B-2.3 (continued)

	Age and sex adjusted WIC status			Fully adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>For Infants Only</u>						
<u>WIC Juices</u>						
Calories (kcal)	4.20	-4.12	26.78	10.39	1.90	22.38
Protein (g)	-0.04	-0.02	0.23	-0.04	-0.03	0.23
Fat (g)	0.01	-0.01	0.06	0.02	0.00	0.05
Carbohydrates (g)	1.07	-1.01	6.49	2.61	0.49	5.40
Calcium (mg)	0.59	-0.74	4.95	1.60	0.23	4.24
Iron (mg)	0.04	-0.02	0.12	0.09*	0.02	0.09
Magnesium (mg)	0.04	-0.56	4.36	0.56	-0.05	3.99
Phosphorus (mg)	-0.43	-0.67	6.08	-0.08	-0.35	5.84
Vitamin A (I.U.)	-9.47	-6.25	69.51	-8.56	-6.70	69.01
Thiamin (mg)	-0.00	-0.00	0.03	-0.00	-0.00	0.03
Riboflavin (mg)	0.00	-0.00	0.01	0.00	0.00	0.00
Niacin (mg)	-0.01	-0.01	0.11	0.00	-0.01	0.11
Vitamin B6 (mg)	0.00	-0.00	0.02	0.01	0.00	0.02
Vitamin B12 (mcg)	0.00**	0.00**	0.00	0.00**	0.00**	0.00
Vitamin C (mg)	6.82	-5.21	31.73	15.67	3.23	25.45
<u>WIC Cereals</u>						
Calories (kcal)	0.79	-0.16	30.54	3.62	6.86	28.06
Protein (g)	-0.15	-0.16	1.09	-0.06	0.06	1.01
Fat (g)	0.01	-0.03	0.54	-0.01	0.01	0.55
Carbohydrates (g)	0.29	0.23	5.36	0.95	1.67	4.80
Calcium (mg)	1.39	-3.38	57.60	3.49	5.91	55.32
Iron (mg)	-0.06	0.29	5.00	0.34	1.29	4.65
Magnesium (mg)	0.05	2.01	11.18	0.00	3.20	11.08
Phosphorus (mg)	0.34	5.16	38.47	0.76	9.91	37.70
Vitamin A (I.U.)	33.54	178.86*	-2.90	40.06	176.23*	-6.56
Thiamin (mg)	0.00	0.04	0.19	0.02	0.08	0.18
Riboflavin (mg)	0.01	0.04	0.18	0.03	0.07	0.17
Niacin (mg)	0.07	0.49	2.35	0.31	0.99	2.15
Vitamin B6 (mg)	0.02	0.07*	0.02	0.02	0.07*	0.02
Vitamin B12 (mcg)	0.05	0.21*	0.01	0.05	0.20	0.01
Vitamin C (mg)	0.42	2.09*	0.09	0.51	2.07*	0.04

(continued)

Table VI-B-2.3 (continued)

	Age and sex adjusted WIC status			Fully adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>For Infants Only</u>						
<u>Other WIC Foods</u>						
Calories (kcal)	10.74	48.69**	23.45	11.52	46.19**	23.25
Protein (g)	0.77	2.96**	1.49	0.75	2.72**	1.53
Fat (g)	0.84	2.31**	1.29	0.78	2.29**	1.34
Carbohydrates (g)	-0.00	4.16**	1.41	0.33	3.79**	1.25
Calcium (mg)	4.46	17.49**	9.31	4.46	16.18**	9.45
Iron (mg)	0.10	0.57**	0.32	0.13	0.52**	0.30
Magnesium (mg)	1.46	14.81**	4.12	1.72	13.44**	4.11
Phosphorus (mg)	11.67	51.41**	25.05	11.91	46.91**	25.40
Vitamin A (I.U.)	34.51	60.60	50.46	27.50	54.04	55.42
Thiamin (mg)	0.00	0.03**	0.01	0.00	0.03**	0.01
Riboflavin (mg)	0.02	0.05**	0.03	0.02	0.04*	0.03
Niacin (mg)	0.04	0.45**	0.05	0.01	0.41**	0.08
Vitamin B6 (mg)	0.01	0.05*	0.02	0.01	0.04*	0.02
Vitamin B12 (mcg)	0.07	0.12	0.12	0.06	0.11	0.13
Vitamin C (mg)	0.00**	0.00**	0.00	0.00**	0.00**	0.00
<u>WIC Dairy</u>						
Calories (kcal)	80.43**	6.19	394.97	57.31	-39.40	413.92
Protein (g)	-3.93**	1.54	18.35	-5.10**	-1.21	19.36
Fat (g)	4.68**	-0.51	20.54	3.49*	-2.86	21.52
Carbohydrates (g)	4.63	2.30	31.17	3.16	-1.86	32.51
Calcium (mg)	-190.54**	67.77	650.49	-231.55**	-22.51	685.15
Iron (mg)	7.83**	-0.99	3.96	7.50**	-0.86	4.15
Magnesium (mg)	-15.39**	6.55	72.46	-19.44**	-5.01	76.18
Phosphorus (mg)	-163.71**	55.33	503.81	-196.57**	-11.80	531.01
Vitamin A (I.U.)	503.67**	19.70	1050.22	440.22**	-85.01	1100.03
Thiamin (mg)	0.12**	-0.00	0.30	0.10**	-0.03	0.31
Riboflavin (mg)	-0.12	0.05	0.93	-0.18**	-0.06	0.98
Niacin (mg)	1.62**	-0.06	1.37	1.58**	-0.14	1.40
Vitamin B6 (mg)	0.03	0.01	0.26	0.01	-0.02	0.28
Vitamin B12 (mcg)	-0.46**	0.20	2.01	-0.59**	-0.08	2.12
Vitamin C (mg)	18.86**	-1.47	14.48	18.18**	-2.19	14.97
n	178	32	84	178	32	84

(continued)

Table VI-B-2.3 (continued)

	Age and sex adjusted WIC status			Fully adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>For Children Only</u>						
<u>WIC Juices</u>						
Calories (kcal)	6.92	0.01	31.71	9.50*	-0.58	31.15
Protein (g)	0.10	0.01	0.47	0.13*	-0.00	0.47
Fat (g)	0.01	-0.00	0.07	0.02*	-0.00	0.07
Carbohydrates (g)	1.65	-0.00	7.55	2.27*	-0.14	7.42
Calcium (mg)	1.36	0.02	6.29	1.87*	-0.10	6.18
Iron (mg)	0.02	-0.00	0.08	0.03*	-0.00	0.08
Magnesium (mg)	1.45	0.07	6.92	1.95*	-0.09	6.83
Phosphorus (mg)	2.31	0.18	10.90	3.05*	-0.11	10.78
Vitamin A (I.U.)	29.67	3.40	132.06	38.26*	-0.81	130.95
Thiamin (mg)	0.01	0.00	0.06	0.02*	-0.00	0.06
Riboflavin (mg)	0.00	-0.00	0.01	0.00*	-0.00	0.01
Niacin (mg)	0.04	0.00	0.20	0.06*	-0.00	0.20
Vitamin B6 (mg)	0.00	0.00	0.02	0.01**	-0.00	0.02
Vitamin B12 (mcg)	0.00**	0.00**	0.00	0.00**	0.00**	0.00
Vitamin C (mg)	7.26	-0.12	31.68	10.10**	-0.64	31.02
<u>WIC Cereals</u>						
Calories (kcal)	21.88**	4.05	13.57	21.38**	2.47	14.25
Protein (g)	0.43**	0.01	0.40	0.42**	-0.02	0.42
Fat (g)	0.15**	0.02	0.10	0.14**	0.01	0.11
Carbohydrates (g)	4.77**	0.94	2.82	4.70**	0.60	2.96
Calcium (mg)	7.14**	-0.58	7.35	6.76*	-0.66	7.50
Iron (mg)	2.12**	0.27	1.47	2.01**	0.13	1.54
Magnesium (mg)	2.68**	-0.44	2.82	2.70**	-0.51	2.84
Phosphorus (mg)	9.93**	-0.95	9.12	10.13**	-1.10	9.11
Vitamin A (I.U.)	460.21**	104.26	160.16	429.24**	68.39	181.18
Thiamin (mg)	0.14**	0.02	0.07	0.13**	0.02	0.08
Riboflavin (mg)	0.16**	0.03	0.07	0.15**	0.02	0.08
Niacin (mg)	1.90**	0.34	0.93	1.79**	0.21	1.00
Vitamin B6 (mg)	0.19**	0.04	0.07	0.18**	0.03	0.08
Vitamin B12 (mcg)	0.56**	0.12	0.20	0.52**	0.07	0.23
Vitamin C (mg)	5.37**	1.20	1.74	4.97**	0.77	2.01

(continued)

Table VI-B-2.3 (continued)

	Age and sex adjusted WIC status			Fully adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>For Children Only</u>						
<u>Other WIC Foods</u>						
Calories (kcal)	-9.22	-3.21	81.28	-7.66	-6.04	81.76
Protein (g)	-0.54	-0.11	4.90	-0.47	-0.30	4.95
Fat (g)	-0.69	-0.23	5.13	-0.57	-0.35	5.13
Carbohydrates (g)	-0.17	-0.21	4.00	-0.15	-0.42	4.06
Calcium (mg)	-4.16	-0.98	29.70	-3.09	-2.61	29.93
Iron (mg)	-0.09	-0.02	0.89	-0.07	-0.07	0.90
Magnesium (mg)	-1.09	-0.67	16.33	-1.22	-1.15	16.53
Phosphorus (mg)	-8.57	-1.63	80.58	-7.40	-5.13	81.40
Vitamin A (I.U.)	-17.29	4.37	147.13	-15.45	-5.12	149.75
Thiamin (mg)	-0.00	0.00	0.04	-0.00	-0.00	0.04
Riboflavin (mg)	-0.01	0.00	0.09	-0.01	-0.00	0.09
Niacin (mg)	-0.02	-0.04	0.53	-0.04	-0.03	0.54
Vitamin B6 (mg)	-0.01	0.00	0.07	-0.01	-0.00	0.07
Vitamin B12 (mcg)	-0.04	0.01	0.33	-0.04	-0.01	0.33
Vitamin C (mg)	0.01	0.04	-0.00	0.03	0.05	-0.01
<u>WIC Dairy</u>						
Calories (kcal)	13.71	6.85	221.79	13.10	9.33	221.14
Protein (g)	0.16	0.24	12.39	0.19	0.49	12.30
Fat (g)	0.91	0.49	11.54	0.84	0.51	11.56
Carbohydrates (g)	0.82	0.36	17.61	0.83	0.68	17.50
Calcium (mg)	8.22	9.51	445.71	9.46	18.59	442.33
Iron (mg)	0.30**	0.01	0.44	0.27**	0.01	0.44
Magnesium (mg)	1.02	0.99	48.39	1.15	1.91	48.04
Phosphorus (mg)	6.39	7.82	348.96	7.26	14.99	346.32
Vitamin A (I.U.)	16.56	-1.63	517.64	18.57	16.05	511.17
Thiamin (mg)	0.01	0.00	0.15	0.01	0.01	0.15
Riboflavin (mg)	0.02	0.01	0.60	0.02	0.02	0.59
Niacin (mg)	0.08**	0.01	0.39	0.08**	0.01	0.39
Vitamin B6 (mg)	0.01	0.00	0.15	0.01	0.01	0.15
Vitamin B12 (mcg)	0.03	0.03	1.34	0.03	0.06	1.33
Vitamin	0.79**	0.04	3.92	0.74**	0.09	3.92
n	533	605	679	533	605	679

*
p < 0.05.**
p < 0.01.***
p < 0.001.

^aAge adjusted includes second order term (age²) to account for nonlinearity of relationship; see Vol. II, Table VI-1 for full covariate list. Values are differences from the control groups means.

Table VI-B-2.4

Nutrient Intake of Infants Under 1 Year of
Age from Formula, Other WIC Foods/Milk, and All Other Foods

	Age and sex adjusted WIC status			Fully adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Calories (kcal)						
Formula	261.22***	-42.19	133.16	262.54	-31.90	131.24
Other WIC foods	15.69	44.46*	81.12	25.54	55.03*	74.01
Milk	-181.65***	27.93	287.88	-196.63***	-8.79	300.94
Other	-62.84	91.16	382.60	-68.29	57.18	389.60
Total	32.41	121.37	884.76	23.16	71.52	895.78
Protein (g)						
Formula	6.23**	-1.12	2.97	6.29***	-1.14	2.93
Other WIC foods	0.57	2.78**	2.84	0.64	2.76**	2.80
Milk	-10.22**	2.18	16.01	-11.18***	-0.08	16.84
Other	-1.31	3.28	10.56	-1.13	2.30	10.56
Total	-4.72*	7.11*	32.38	-5.37	3.83	33.13
Fat (g)						
Formula	13.93	-2.34	6.96	13.98	-1.91	6.88
Other WIC foods	0.85	2.27*	1.93	0.79	2.31*	1.96
Milk	-9.22	0.80	14.87	-10.04	-1.03	15.56
Other	-1.63	2.78	10.35	-2.55	0.72	11.14
Total	3.92*	3.51	34.11	2.17	0.09	35.54
Carbohydrate (g)						
Formula	19.22	-2.17	9.99	19.70	-1.92	9.67
Other WIC foods	1.36	3.39	13.26	3.89	5.95	11.45
Milk	-14.92	3.04	23.27	-15.89	0.16	24.17
Other	-11.05*	12.79	64.04	-10.65	9.99	64.10
Total	-5.39	17.04	110.56	-2.95	14.19	109.40
Calcium (mg)						
Formula	176.27***	-25.50	91.76	178.81***	-19.20	89.54
Other WIC foods	6.42	13.46	72.44	9.56	22.44	69.56
Milk	-369.34***	78.68	578.22	-404.13***	-3.23	608.20
Other	-9.98	7.88	90.04	-8.03	5.01	89.17
Total	-196.63***	74.52	832.46	-223.78***	5.02	856.47

(continued)

Table VI-B-2.4 (continued)

	Age and sex adjusted WIC status			Fully adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Iron (mg)						
Formula	8.17***	-1.39	3.90	7.97***	-0.90	3.97
Other WIC foods	0.08	0.84	5.44	0.56	1.83	5.04
Milk	-0.30***	0.03	0.47	-0.32***	-0.04	0.50
Other	-0.27	0.33	3.92	-0.35	-0.13	4.01
Total	7.68***	-0.20	13.73	7.85***	0.77	13.52
Magnesium (mg)						
Formula	24.59***	-2.57	11.78	25.28***	-3.59	11.47
Other WIC foods	1.55	16.27**	19.68	2.28	*16.59	19.20
Milk	-40.21***	7.54	62.96	-43.89***	-1.32	66.15
Other	-9.97	4.04	51.83	-7.02	4.99	49.94
Total	-24.04**	25.29*	146.24	-23.35*	16.68	146.76
Phosphorus (mg)						
Formula	123.34***	-19.54	66.03	124.37***	-11.57	64.54
Other WIC foods	11.53	56.12**	70.22	12.62	56.74*	69.49
Milk	-289.30	64.45	452.74	-316.34	0.68	476.05
Other	-20.90	41.00	162.60	-17.66	25.46	162.33
Total	-175.33***	142.03*	751.58	-197.02***	71.31	772.41
Vitamin A (IU)						
Formula	941.73***	-179.21	485.16	941.05***	-122.65	479.41
Other WIC foods	58.43	233.49**	118.14	58.99	223.93*	118.84
Milk	-432.50***	139.71	652.30	-470.68***	41.43	686.11
Other	-1002.05	2189.25*	2952.35	-548.55	2318.77*	2663.69
Total	-434.38	2383.24*	4207.94	-19.20	2461.47*	3948.05
Thiamin (mg)						
Formula	0.24***	-0.05	0.13	0.24***	-0.03	0.13
Other WIC foods	0.00	0.07	0.23	0.02	0.10	0.22
Milk	-0.12***	0.04	0.19	-0.14***	0.01	0.20
Other	-0.04	0.03	0.28	-0.06	-0.02	0.30
Total	0.08	0.09	0.84	0.06	0.06	0.85
Riboflavin (mg)						
Formula	0.37***	-0.08	0.20	0.37***	-0.05	0.19
Other WIC foods	0.03	0.09	0.22	0.04	0.12	0.20
Milk	-0.49***	0.10	0.77	-0.54***	-0.01	0.81
Other	-0.04	0.13	0.33	-0.05	0.09	0.35
Total	-0.13	0.24	1.52	-0.18	0.15	1.56

(continued)

Table VI-B-2.4 (continued)

	Age and sex adjusted WIC status			Fully adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Niacin (mg)						
Formula	1.95***	-0.28	1.05	1.98***	-0.17	1.02
Other WIC foods	0.11	0.93**	2.52	0.32	1.40	2.34
Milk	-0.31***	0.07	0.48	-0.34***	0.00	0.51
Other	-0.65	0.90	3.98	-0.93	0.31	4.22
Total	1.10	1.62	8.03	1.03	1.54	8.09
Vitamin B6 (mg)						
Formula	0.15***	-0.03	0.08	0.16***	-0.02	0.08
Other WIC foods	0.03	0.12**	0.06	0.04	0.11**	0.06
Milk	-0.13***	0.02	0.20	-0.14***	-0.00	0.21
Other	-0.03	0.09	0.34	-0.00	0.13	0.32
Total	0.03	0.20*	0.68	0.05	0.22*	0.66
Vitamin B12 (mcg)						
Formula	0.65***	-0.09	0.33	0.66***	-0.08	0.32
Other WIC foods	0.13	0.33	0.13	0.12	0.31*	0.14
Milk	-1.12***	0.24	1.75	-1.23***	-0.00	1.84
Other	0.27	2.63*	0.35	0.53	2.70*	0.19
Total	-0.07	3.11**	2.56	0.08	2.93*	2.48
Vitamin C (mg)						
Formula	22.13***	-3.89	11.59	22.21***	-2.54	11.39
Other WIC foods	7.24	-3.12	31.83	16.18	5.30	25.50
Milk	-3.07***	0.60	4.82	-3.36***	-0.07	5.07
Other	-9.19	5.37	45.22	-7.64	10.16	43.76
Total	17.10	-1.04	93.47	27.40	12.84	85.72
n	178	32	84	178	32	84

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aAge adjustment includes second order term (age²) to account for nonlinearity of relationship.
See Vol. II, Table VI-1 for full covariate list. Values are differences from the control group means.

Table VI-B-3

Mean Dietary Intakes Estimated by Regression Analyses, Presented as Percentages of the RDAs^a

	RDA ^b (1.0-30 y)	Age and Sex adjusted						Adjusted for all covariates					
		Current WIC			Past WIC			Current WIC			Past WIC		
		Mean	% RDA	Controls	Mean	% RDA	Controls	Mean	% RDA	Controls	Mean	% RDA	Controls
Calories (kcal)	1300	1143	88	1131	87	1123	86	1132	87	1131	87	1133	87
Protein (g)	23	40.3	175	41.5	180	41.0	178	40.0	174	41.3	180	41.4	180
Calcium (mg)	800	675	84	703	88	706	88	672	84	710	89	702	88
Iron (mg)	15	13.3	89	10.5	70	10.2	68	13.0	87	10.5	70	10.4	69
Magnesium (mg)	150	160	107	162	108	164	109	159	106	163	109	164	109
Phosphorus (mg)	800	771	96	804	101	806	101	767	96	809	101	806	101
Vitamin A(IU)	1000	4078	204	4083	204	3665	183	4002	200	4160	208	3671	184
Thiamin (mg)	0.7	1.08	154	1.0	143	0.97	139	1.06	151	1.0	143	0.99	141
Riboflavin (mg)	0.8	1.56	195	1.56	195	1.50	188	1.54	193	1.57	196	1.51	189
Niacin (mg)	9.0	12.14	135	10.98	122	10.70	119	11.87	132	10.97	122	10.95	122
Vitamin B6 (mg)	0.9	1.11	123	1.06	118	1.02	113	1.11	123	1.06	118	1.03	114
Vitamin B12 (mcg)	2.0	3.57	179	3.73	187	3.22	161	3.48	174	3.80	190	3.24	162
Vitamin C (mg)	45	104.4	232	90.6	201	92.0	204	105.3	234	89.3	198	92.2	205

^a Since the mean age of the sample was 28.1 months, the RDA applicable to children 12 to 47 months of age was used.^b For calories, the Recommended Energy Intake for 1- to 3-year-old children was used.

Table VI-B-4

Comparison of Nutrient Density (Nutrient/1000 kcal) in Diets of Children
 Surveyed in (a) USDA Nationwide Food Consumption Survey^a and (b) USDA
 Nationwide Food Consumption Survey in Low-Income Households,^b by Age of Child

	Age					
	<1 year		1-2 Years		3-5 years	
	All incomes	Low income only	All incomes	Low income only	All incomes	Low income only
Protein (g)	37.0	32.4	40.3	42.2	38.9	40.7
Fat (g)	39.0	41.9	41.4	44.6	41.8	43.2
Carbohydrate (g)	118.5	115.0	118.9	108.8	119.6	114.0
Calcium (mg)	1008	850	633	626	503	553
Iron (mg)	22.1	23.9	7.0	6.9	6.8	7.4
Magnesium (mg)	161	147	137	134	125	131
Phosphorus (mg)	838	719	732	735	657	.689
Vitamin A (IU)	4601	5369	2895	2634	2638	2685
Thiamin (mg)	1.13	1.17	0.77	0.77	0.75	0.87
Riboflavin (mg)	1.96	1.82	1.25	1.25	1.11	1.24
Niacin (mg)	11.4	11.2	8.7	8.8	9.5	10.1
Vitamin B6 (mcg)	0.80	0.72	0.79	0.80	0.79	0.89
Vitamin B12 (mcg)	2.96	2.58	2.66	2.97	2.64	2.80
Vitamin C (mg)	101	101	65	58	50	47
Calories	794	858	1164	1226	1435	1454.1
n	78	264	264	428	437	631

^aUSDA Science and Education Administration, Nationwide Food Consumption Survey 1977-78 Preliminary Report No. 2: Food and Nutrient Intakes of Individuals in 1 day in the United States, Spring 1977, Table 3.6a, p. 90, September 1980.

^bUSDA Human Nutrition Service, Nationwide Food Consumption Survey, 1977-78, Preliminary Report No. 13: Food and Nutrient Intakes of Individuals in 1-day Low-income Households, November 1979-March 1980, Table 3.4-01, p. 156-157, September 1982.

Table VI-B-5.1

Mean Dietary Intake and Sex of Child

Sex of Child	Age and Sex Adjusted WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total intake per day</u>						
Calories (kcal)						
Male	-1.0279	-5.6885	1157.3954	-26.3225	-13.4563	1167.2581
Female	39.3452	20.2979	1089.5181	24.2988	11.3236	1098.1835*
		MSE = 194597.2			MSE = 190452	
Protein (g)						
Male	-0.6777	0.7448	41.7670	-1.6988	0.0724	42.2198
Female	-0.7422	0.3136	40.1775	-1.1011	-0.1579	40.5298
		MSE = 366.342			MSE = 358.151	
Fat (g)						
Male	1.1133	-0.1572	42.7065	0.0963	-0.5671	43.1961
Female	1.1757	1.1121	41.2052	0.3154	0.4475	41.6686
		MSE = 438.03			MSE = 427.762	
Carbohydrate (g)						
Male	-4.7488	-2.1044	154.5006	-7.3515	-2.0573	155.0959
Female	6.2812	3.2379	142.5609	5.2839	3.3170	143.1243*
		MSE = 4255.828			MSE = 4182.379	
Calcium (mg)						
Male	-22.9650	18.1761	703.3167	-20.7548	24.5807	699.6785
Female	-37.8641	-25.0976	708.2032	-39.3217	-8.8882	704.8794
		MSE = 149063.5			MSE = 145332.4	
Iron (mg)						
Male	3.7993**	0.1740	10.6511	3.2656**	-0.0884	10.9705
Female	2.3176**	0.3621	9.7950	1.8425**	0.2997	9.9145
		MSE = 80.111			MSE = 79.905	
Magnesium (mg)						
Male	-4.7968	-0.9062	167.5147	-6.5568	-1.0727	167.6071
Female	-2.6451	-2.5642	159.9210	-2.9989	-1.0613	160.1366
		MSE = 6172.466			MSE = 6059.062	
Phosphorus (mg)						
Male	-37.5941	8.2603	814.7766	-41.2481	8.6977	814.2609
Female	-34.5713	-12.5991	798.1022	-37.3967	-3.6769	798.0358
		MSE = 139327.7			MSE = 135623.6	
Vitamin A (IU)						
Male	575.8279	682.4084	3570.2672	471.3043	715.3536	3600.6733
Female	248.8894	143.5855	3761.9376	197.7145	257.1971	3739.8918
		MSE = 24250320			MSE = 24359606	
Thiamin (mg)						
Male	0.1341**	0.0227	1.0017	0.0929*	0.0000	1.0219
Female	0.0938*	0.0316	0.9387	0.0592	0.0150	0.9559
		MSE = 0.33			MSE = 0.329	
Riboflavin (mg)						
Male	0.0852	0.0898	1.5070	0.0620	0.0868	1.5184
Female	0.0321	0.0185	1.4954	0.0087	0.0351	1.4957
		MSE = 0.918			MSE = 0.915	
Niacin (mg)						
Male	1.8464**	0.1044	11.0185	1.2381*	-0.1988	11.3136
Female	1.0654	0.4782	10.3711	0.6294	0.2389	10.5903
		MSE = 59.233			MSE = 58.797	

(continued)

Table VI-B-5.1 (continued)

Sex of Child	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Vitamin B6 (µg)						
Male	0.1196*	0.0459	1.0445	0.1006	0.0294	1.0541
Female	0.0585	0.0344	1.0033	0.0519	0.0236	1.0105
		MSE = 0.543			MSE = 0.544	
Vitamin B12 (mcg)						
Male	0.7026	0.7252	2.9771	0.6272	0.7410	3.0195
Female	0.0063	0.2851	3.4604	-0.1066	0.3788	3.4494
		MSE = 29.808			MSE = 29.903	
Vitamin C (mg)						
Male	8.1774	-3.6595	97.8720	8.5027	-4.4960	97.4853
Female	16.4412**	0.9517	86.0482	17.4224**	-1.2780	86.9018
		MSE = 7073.161			MSE = 6979.186	
<u>Total intake adjusted for caloric intake</u>						
Protein (g)						
Male	-0.6421	0.9418	40.8941	-0.7878	0.5381	41.0063
Female	-2.1050*	-0.3895	41.6557	-1.9420*	-0.5498	41.7068
		MSE = 132.941			MSE = 130.11	
Fat (g)						
Male	1.1549	0.0730	41.6871	1.1582	-0.0243	41.7815
Female	-0.4159	0.2910	42.9315	-0.6649	-0.0093	43.0406
		MSE = 119.665			MSE = 117.852	
Carbohydrate (g)						
Male	-4.6173	-1.3766	151.2763	-3.9784	-0.3329	150.6025
Female	1.2474	0.6410	148.0209	2.1700	1.8659	147.4827
		MSE = 1071.06			MSE = 1055.312	
Calcium (mg)						
Male	-22.4424	21.0687	690.5019	-7.3814	31.4173	681.8638
Female	-57.8708*	-35.4190	729.9035	-51.6670*	-14.6413	722.1587
		MSE = 98794.5			MSE = 96218.54	
Iron (mg)						
Male	3.8077**	0.2204	10.4455	3.4832**	0.0228	10.6807
Female	1.9965**	0.1964	10.1432	1.6416**	0.2061	10.1956
		MSE = 67.187			MSE = 66.923	
Magnesium (mg)						
Male	-4.6605	-0.1516	164.1715	-3.0648	0.7125	162.9553
Female	-7.8645*	-5.2569	165.5823	-6.2224	-2.5635	164.6485
		MSE = 2749.199			MSE = 2708.47	
Phosphorus (mg)						
Male	-36.9329*	11.9192	798.5667	-24.3102	17.3565	791.6980
Female	-59.8785**	-25.6549	825.5516	-53.0324**	-10.9634	819.9206
		MSE = 58847.24			MSE = 56792.63	
Vitamin A (IU)						
Male	578.6460	698.0047	3501.1719	544.9624	753.0083*	3502.5532
Female	141.0166	87.9346	3878.9419	129.7193	225.5103	3835.0629
		MSE = 22798383			MSE = 22879321	
Thiamin (mg)						
Male	0.1350**	0.0271	0.9819	0.1136**	0.0106	0.9943
Female	0.0630	0.0157	0.9721	0.0401	0.0061	0.9827
		MSE = 0.211			MSE = 0.211	
Riboflavin (mg)						
Male	0.0864	0.0963	1.4781	0.0925	0.1025	1.4777
Female	-0.0130	-0.0048	1.5443	-0.0195	0.0219	1.5352
		MSE = 0.663			MSE = 0.658	

(continued)

Table VI-B-5.1 (continued)

Sex of Child	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Niacin (mg)						
Male	1.8561**	0.1583	10.7799	1.4884**	-0.0708	10.9801
Female	0.6929	0.2861	10.7751	0.3983	0.1312	10.9137
		MSE = 41.817			MSE = 49.591	
Vitamin B6 (mg)						
Male	0.1205**	0.0508	1.0226	0.1239**	0.0413	1.0230
Female	0.0244	0.0167	1.0404	0.0303	0.0136	1.0406
		MSE = 0.397			MSE = 0.395	
Vitamin B12 (mcg)						
Male	0.7054	0.7412	2.9063	0.7026	0.7795	2.9192
Female	-0.1042	0.2281	3.5802	-0.1761	0.3463	3.5468
		MSE = 28.286			MSE = 28.355	
Vitamin C (mg)						
Male	8.2325	-3.3548	96.5221	9.9614	-3.7503	95.5421
Female	14.3338*	-0.1355	88.3341	16.0758**	-1.9055	88.7866
		MSE = 6517.94			MSE = 6397.55	
<u>Intake from potential WIC foods</u>						
Calories (kcal)						
Male	50.7048**	14.2880	376.5657	51.0033**	9.4802	377.8191
Female	40.3447*	9.1360	357.0903	37.1626*	7.8523	358.7091
		MSE = 53720.09			MSE = 52335.44	
Protein (g)						
Male	-0.9674	0.3381	19.1186	-0.8367	0.2345	19.0840
Female	-0.4981	0.1139	18.1392	-0.4744	0.2383	18.1185
		MSE = 134.407			MSE = 128.495	
Fat (g)						
Male	1.6839*	0.6190	17.9723	1.5290	0.3363	18.1403
Female	1.0416	0.3924	17.4112	0.8334	0.2685	17.4901
		MSE = 136.5			MSE = 132.813	
Carbohydrate (g)						
Male	7.5601**	1.8368	34.8759	8.0290**	1.4532	34.7081
Female	6.3853**	0.7260	32.4836	6.2600**	0.5685	32.7065
		MSE = 853.986			MSE = 843.6	
Calcium (mg)						
Male	-17.6626	12.8067	519.1874	-10.4126	17.3190	514.5111
Female	-38.9035	-4.3547	522.8282	-38.1939	7.0087	520.1524
		MSE = 127351			MSE = 124588.9	
Iron (mg)						
Male	4.1710**	0.1652	4.1616	3.9510**	-0.0632	4.3680
Female	3.2795**	0.7247	3.3033	2.8879**	0.6427	3.3995
		MSE = 87.635			MSE = 87.263	
Magnesium (mg)						
Male	1.3500	1.3957	79.1083	2.0694	1.0061	78.7287
Female	-1.3549	-0.3667	74.8539	-1.5564	0.2982	74.9935
		MSE = 2687.304			MSE = 2607.858	
Phosphorus (mg)						
Male	-24.3665	9.0528	474.1021	-17.9380	9.8225	470.8272
Female	-27.2688	0.7197	459.9148	-26.2497	7.3706	458.5423
		MSE = 89408.71			MSE = 86344.44	
Vitamin A (IU)						
Male	526.7474**	81.7209	1055.1366	509.2589**	51.5652	1075.2880
Female	490.1932**	160.7352	915.6099	435.1624**	139.4525	935.8501
		MSE = 2229696			MSE = 2225885	

(continued)

Table VI-B-5.1 (continued)

Sex of Child	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Intake from potential WIC foods						
Thiamin (mg)						
Male	0.1841**	0.0154	0.3700	0.1790**	0.0045	0.3758
Female	0.1371**	0.0483	0.3235	0.1198**	0.0430	0.3302
		MSE = 0.244			MSE = 0.244	
Riboflavin (mg)						
Male	0.1451**	0.0272	0.8304	0.1468**	0.0204	0.8337
Female	0.0978	0.0501	0.7959	0.0800	0.0548	0.7989
		MSE = 0.494			MSE = 0.489	
Niacin (mg)						
Male	2.3963**	0.0917	2.5357	2.2997**	-0.0166	2.6231
Female	1.7437**	0.5992	2.0011	1.4927**	0.5449	2.0817
		MSE = 38.205			MSE = 38.116	
Vitamin B6 (mg)						
Male	0.1700**	0.0314	0.3382	0.1677**	0.0175	0.3448
Female	0.1653**	0.0595	0.2914	0.1476**	0.0493	0.2990
		MSE = 0.352			MSE = 0.361	
Vitamin B12 (mcg)						
Male	0.3516*	0.1160	1.9554	0.3476*	0.0788	1.9765
Female	0.3713*	0.1800	1.8440	0.3173*	0.1630	1.8595
		MSE = 4.271			MSE = 4.245	
Vitamin C (mg)						
Male	18.8003**	0.9678	40.9628	20.5539**	0.8873	39.8317
Female	13.9132**	1.6245	36.1845	15.0194**	0.1885	36.8046
		MSE = 4712.238			MSE = 4675.639	
n	Current	Past	Control	Total		
Male	345	327	383	1,056		
Female	366	310	380	1,055		
	711	637	763	2,111		

* p < 0.05.

** p < 0.01.

***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship.
See Vol. II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-B-5.2

Proportion of Children with Diets Below 160 Percent of the
Recommended Energy Intake and Below 77 Percent of the
Recommended Dietary Allowance by Sex of Child

Sex of Child	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Calories <100 Percent RDA						
Male	-0.0172	-0.0220	0.6159	0.0063	-0.0111	0.6064
Female	-0.0379	-0.0279	0.6703	-0.0212	-0.0112	0.6581
		MSE = 0.2283382			MSE = 0.2264815	
Protein <77 Percent RDA						
Male	0.0196	-0.0065	0.0479	0.0219	-0.0031	0.0471
Female	-0.0177	-0.0098	0.0827	-0.0184	-0.0129	0.0828
		MSE = 0.05846286			MSE = 0.05689158	
Calcium <77 Percent RDA						
Male	0.0100	0.0224	0.3833	0.0172	0.0217	0.3800
Female	-0.0314	0.0149	0.4117	-0.0233	0.0013	0.4140
		MSE = 0.2181146			MSE = 0.2132572	
Iron <77 Percent RDA						
Male	-0.1531**	-0.0050	0.6952	-0.1471**	-0.0019	0.6898
Female	-0.1369**	-0.0109	0.7050	-0.1314**	-0.0101	0.7054
		MSE = 0.2068394			MSE = 0.2080547	
Magnesium <77 Percent RDA						
Male	0.0256	0.0034	0.1918	0.0308	0.0056	0.1911
Female	-0.0198	0.0136	0.2337	-0.0161	0.0036	0.2337
		MSE = 0.153496			MSE = 0.1519206	
Phosphorus <77 Percent RDA						
Male	0.0290	-0.0038	0.2088	0.0249	-0.0079	0.2119
Female	-0.0515	-0.0177	0.2521	-0.0549	-0.0327	0.2573
		MSE = 0.1625352			MSE = 0.1595382	
Vitamin A <77 Percent RDA						
Male	-0.0431	0.0201	0.2383	-0.0510	0.0111	0.2459
Female	-0.0768*	-0.0189	0.2745	-0.0888**	-0.0336	0.2807
		MSE = 0.1790063			MSE = 0.1771737	
Thiamin <77 Percent RDA						
Male	-0.0022	-0.0246	0.1183	0.0065	-0.0211	0.1146
Female	-0.0198	-0.0030	0.1270	-0.0154	-0.0016	0.1249
		MSE = 0.1010709			MSE = 0.09960396	
Riboflavin <77 Percent RDA						
Male	-0.0192	-0.0152	0.0968	-0.0278	-0.0203	0.1023
Female	-0.0392	-0.0204	0.1062	-0.0431*	-0.0301	0.1093
		MSE = 0.0777704			MSE = 0.07660793	
Niacin <77 Percent RDA						
Male	-0.0553	0.0052	0.3111	-0.0191	0.0189	0.2958
Female	-0.0775*	0.0007	0.3422	-0.0618	0.0102	0.3332
		MSE = 0.2102881			MSE = 0.206031	
Vitamin B6 <77 Percent RDA						
Male	-0.0471	-0.0278	0.3222	-0.0409	-0.0222	0.3197
Female	-0.0115	-0.0217	0.3090	-0.0173	-0.0255	0.3109
		MSE = 0.2066671			MSE = 0.2053128	
Vitamin B12 <77 Percent RDA						
Male	-0.0311	-0.0193	0.2068	-0.0402	-0.0281	0.2120
Female	-0.0274	-0.0173	0.2085	-0.0342	-0.0319	0.2158
		MSE = 0.1513365			MSE = 0.1493783	

(continued)

Table VI-B-5.2 (Continued)

Sex of Child	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Proportion below RDA Level</u>						
Vitamin C <77 Percent RDA						
Male	-0.0181	0.0242	0.2394	-0.0204	0.0285	0.2414
Female	-0.0817**	-0.0172	0.2680	-0.0944**	-0.0177	0.2700
	MSE = 0.1797386			MSE = 0.17792		
n	<u>Current WIC</u>	<u>Past WIC</u>	<u>Never</u>	<u>Total</u>		
Male	345	327	383	1,055		
Female	366	310	380	1,056		
Total	711	637	763	2,111		

* p < 0.05.

** p < 0.01.

*** p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship.
See Vol. II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-B-5.3

Mean Dietary Intake and Age of Children

Age of Child (m)	Sex Adjusted WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Total Intake Per Day						
Calories (kcal)						
12-23	-54.1444	-0.6108	1101.2916	-59.9481	6.7026	1116.6492
1-11	13.1643	126.9642	894.5173***	-8.8155	89.6913	952.7738**
24-35	89.6174	30.7416	1133.2333	74.1895	23.9876	1127.2453
36-47	183.6990**	43.2817	1111.2359	156.8128*	34.8807	1102.4298
48-59	-105.0269	-70.7551	1414.8273***	-141.1728	-93.2850	1399.4432***
MSE =	192359.4			MSE =	188230.8	
Protein (g)						
12-23	-0.9887	1.8643	41.3013	-1.2326	1.6472	41.8475
1-11	-6.0430*	7.4305	33.0972***	-7.1999**	5.4325	35.1064**
24-35	3.6802	1.8197	40.2356	3.2723	1.4678	40.2008
36-47	6.0783*	-0.9663	41.5958	5.4487*	-1.4625	41.5985
48-59	-6.5253*	-1.8694	48.9950***	-8.1200*	-2.9204	48.5588**
MSE =	356.143			MSE =	348.044	
Fat (g)						
12-23	-1.4122	2.3999	41.5058	-1.7981	2.4254	42.0543
1-11	3.3691	3.7051	34.3908**	1.7967	1.5000	36.7926
24-35	2.9088	1.0581	41.7333	2.5020	0.6275	41.5520
36-47	8.1654**	0.0923	41.1096	6.7662*	-0.5570	41.2792
48-59	-6.3343	-3.4414	51.8800***	-7.7857*	-4.0576	51.4935**
MSE =	434.276			MSE =	423.926	
Carbohydrate (g)						
12-23	-10.8456	-8.6123	144.7515	-10.5774	-5.9737	146.4574
1-11	-8.5049	17.8284	112.1828***	-8.7799	15.6872	119.2174**
24-35	11.9447	3.3489	153.2033	9.7560	3.4183	151.8407
36-47	21.5726*	15.0191*	146.9346	19.0548*	15.0214*	144.1157
48-59	-3.3786	-6.8852	191.7591***	-7.5731	-10.1731	189.1265
MSE =	4211.293			MSE =	4141.127	
Calcium (mg)						
12-23	-29.7500	-28.8619	806.1440	-26.2000	-11.6606	786.6589
1-11	-205.8946**	76.5561	837.4581	-210.4482**	78.7808	807.2679
24-35	47.2063	26.1843	621.0210***	51.8946	40.3680	621.4218***
36-47	111.0802*	-6.9518	574.1689***	107.8802*	1.4808	592.2248***
48-59	-7.3022	19.5721	678.3332**	-33.9423	18.0492	709.7458
MSE =	145241.6			MSE =	141489.3	
Iron (mg)						
12-23	0.8075	-1.2255	9.2353	0.4747	-1.2517	8.9725
1-11	8.7745**	-0.3416	13.0462	8.1314**	-0.6815	12.6798**
24-35	2.8330**	0.2498	9.2399	2.3072*	0.1669	9.5085
36-47	2.4824*	0.9722	9.2064	1.9319	0.8519	9.8613
48-59	-0.8519	0.5877	12.5224***	-1.4722	0.3272	13.6952***
MSE =	75.834			MSE =	75.722	
Magnesium (mg)						
12-23	-6.6019	-5.7242	168.8570	-6.4645	-3.3702	167.8560
1-11	-27.5660**	26.0640	148.0851	-28.4014**	23.4536	148.8978
24-35	6.3110	2.1118	160.9717	6.3390	4.0460	159.9934
36-47	21.4967	-0.4491	152.7123	19.3613	-0.3793	153.8350
48-59	0.5452	-2.2835	190.0012*	-5.3616	-4.8446	192.4321*
MSE =	6025.251			MSE =	5919.971	
Phosphorus (mg)						
12-23	-43.7660	-8.9923	865.1845	-41.6086	0.9511	860.0533
1-11	-196.9942**	147.0188	763.5380*	-205.7520**	133.1074	768.0001
24-35	49.4912	20.8266	765.4249**	52.7005	28.9590	763.5066**
36-47	112.4899*	-12.1145	738.6833	105.0227*	-8.8016	742.7419**
48-59	-46.5824	-6.9295	890.5182	-71.6158	-10.7933	894.1025
MSE =	133623.2			MSE =	130039.6	

(continued)

Table VI-B-5.3 (continued)

Age of Child (m)	Sex Adjusted WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Vitamin A (IU)						
12-23	451.0699	-332.4330	3586.6022	437.3055	-315.1539	3624.7929
1-11	-441.3384	2397.0013*	4208.2415	-470.8038	2390.9551*	4372.9335
24-35	1054.8365*	631.8239	3265.5543	901.2682	736.4603	3252.9987
36-47	968.6330	1069.2323	2965.4929	882.6748	1161.1517*	2850.4960
48-59	-751.5562	-12.3858	5072.6607**	-932.1317	100.4097	4989.7949*
MSE =	24161594			MSE =	24265770	
Thiamin (mg)						
12-23	0.0336	-0.0382	0.8953	0.0052	-0.0559	0.9115
1-11	0.0978	0.0867	0.8251	0.0539	0.0362	0.8675
24-35	0.1785**	0.0051	1.0002	0.1433*	-0.0058	1.0105
36-47	0.1795*	0.1172	0.9735	0.1356	0.1007	0.9861
48-59	0.0564	0.0525	1.2632***	0.0077	0.0293	1.2801***
MSE =	0.33			MSE =	0.329	
Riboflavin (mg)						
12-23	-0.0073	-0.0229	1.5702	-0.0143	-0.0132	1.5594
1-11	-0.1346	0.2410	1.5208	-0.1708	0.2275	1.5275
24-35	0.2515*	0.1318	1.3999	0.2333*	0.1440	1.4108
36-47	0.1921	0.0246	1.3932	0.1518	0.0267	1.4108
48-59	0.0056	0.1082	1.6795	-0.0580	0.1164	1.6987
MSE =	0.913			MSE =	0.91	
Niacin (mg)						
12-23	0.8877	-0.3184	9.1478	0.5425	-0.5170	9.4578
1-11	1.2779	1.6270	7.9053	0.7086	0.9468	8.7161
24-35	2.5659**	0.1042	11.4482**	2.0811*	-0.0404	11.5124**
36-47	1.4169	0.8740	11.6915**	0.7686	0.6183	11.7500*
48-59	-0.6534	0.5640	14.7454***	-1.3074	0.1710	14.7919***
MSE =	59.113			MSE =	58.723	
Vitamin B6 (mg)						
12-23	0.0655	0.0092	0.9409	0.0589	-0.0076	0.9454
1-11	0.0055	0.2111	0.6878**	-0.0152	0.1838	0.7160*
24-35	0.1424	-0.0246	1.1444**	0.1353	-0.0310	1.1435**
36-47	0.1413	0.0593	1.0562	0.1194	0.0474	1.0650
48-59	0.0199	0.1700	1.3240***	0.0063	0.1595	1.3331***
MSE =	0.539			MSE =	0.54	
Vitamin B12 (mcg)						
12-23	0.2002	0.0929	3.4610	0.1430	0.0661	3.5773
1-11	-0.2320	3.1595**	2.6549	-0.3237	3.0942**	2.8789
24-35	1.1796*	0.3754	2.9736	1.0925	0.4635	2.9644
36-47	0.8579	0.5627	2.7942	0.6554	0.6155	2.6886
48-59	-0.5940	0.6629	4.2950	-0.6714	0.8266	4.0459
MSE =	29.667			MSE =	29.76	
Vitamin C (mg)						
12-23	7.6552	-5.9308	81.8189	8.5555	-7.0093	81.2935
1-11	19.5203	-1.5174	91.8483	22.0222*	1.3267	90.6655
24-35	15.8953	-11.9264	95.2145	15.7644	-13.0187	94.4689
36-47	1.8187	13.6494	88.2228	2.5616	11.8977	89.1650
48-59	7.4319	1.2020	115.8885	8.7512	-2.7340	119.3148
MSE =	7033.609			MSE =	6944.292	

(continued)

Table VI-B-5.3 (continued)

Age of Child (m)	Sex Adjusted WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Total Intake Adjusted for Caloric Intake						
Protein (g)						
12-23	0.8713	1.8852	42.3629	0.8255	1.4171	42.3812
1-11	-6.4953**	3.0689	41.2622	-6.8973**	2.3532	41.2661
24-35	0.6015	0.7637	40.1999	0.7252	0.6442	40.3707
36-47	-0.2324	-2.4531	42.3158	0.0651	-2.6600*	42.6204
48-59	-2.9172	0.5612	39.2856	-3.2734	0.2822	39.3838
MSE =	129.192			MSE =	126.249	
Fat (g)						
12-23	0.7794	2.4246*	42.7566	0.6209	2.1549	42.6815
1-11	2.8363*	-1.4340	44.0112	2.1524	-2.1191	44.0323
24-35	-0.7186	-0.1862	41.6912	-0.4916	-0.3404	41.7517
36-47	0.7299	-1.6596	41.9579	0.4387	-1.9645	42.4802
48-59	-2.0831	-0.5775	40.4399	-2.0893	-0.2935	40.7099
MSE =	119.176			MSE =	117.514	
Carbohydrate (g)						
12-23	-3.9176	-8.5342*	148.7057	-2.8923	-6.8330*	148.4501
1-11	-10.1893*	1.5826	142.5949	-7.6498	4.1892	142.2183
24-35	0.4776	-0.5847	153.0703	0.2453	0.3432	152.4751
36-47	-1.9328	9.4809*	149.6162	-1.0480	10.5498**	147.9313
48-59	10.0602	2.1683	155.5946	10.5247	1.7857	154.8663
MSE =	1062.369			MSE =	1048.216	
Calcium (mg)						
12-23	-2.7372	-28.5572	821.5613	3.7318	-15.0072	794.4202
1-11	-212.4624**	13.2131	956.0357***	-206.0467**	33.9983	896.8515*
24-35	2.4958	10.8472	620.5025***	14.8522	28.3911	623.8926***
36-47	19.4321	-28.5452	584.6249***	29.5843	-15.9350	607.0858***
48-59	45.0962	54.8721	537.3264***	36.5446	64.6259	576.3095***
MSE =	97408.94			MSE =	94610.01	
Iron (mg)						
12-23	1.2658	-1.2204	9.4968	0.9901	-1.3093	9.1061
1-11	8.6631**	-1.4161	15.0577***	8.2072**	-1.4526	14.2225***
24-35	2.0745*	-0.0104	9.2311	1.6693*	-0.0394	9.5510
36-47	0.9277	0.6059	9.3838	0.5836	0.5520	10.1172
48-59	0.0369	1.1866	10.1304	-0.2584	1.1293	11.3974*
MSE =	62.085			MSE =	61.837	
Magnesium (mg)						
12-23	0.5168	-5.6439	172.9199	1.4244	-4.2522	169.9016
1-11	-29.2968**	9.3713	179.3337	-27.2413**	11.6506	172.5086
24-35	-5.4715	-1.9299	160.8350*	-3.4240	0.8894	160.6446
36-47	-2.6552	-6.1395	155.4678**	-1.2745	-4.9694	157.7519
48-59	14.3537	7.0190	152.8419***	13.2161	7.4313	157.2633
MSE =	2701.455			MSE =	2661.604	
Phosphorus (mg)						
12-23	-9.4236	-8.6049	884.7851	-3.5447	-3.3047	869.9233
1-11	-205.3440**	66.4885	914.2903	-200.1547**	76.1581	881.9225
24-35	-7.3509	1.3280	764.7657***	5.5940	13.7282	766.6487***
36-47	-4.0259	-39.5671	751.9764***	5.4548	-30.9490	761.6406***
48-59	20.0336	37.9488	711.2508***	18.0215	48.4378	724.4132***
MSE =	56262.92			MSE =	54179.02	
Vitamin A (IU)						
12-23	598.0780	-330.7747	3670.5054	603.9749	-333.7888	3668.0107
1-11	-477.0809	2052.2792*	4853.5598	-446.2947	2141.5927*	4871.7625
24-35	811.5152	548.3570	3262.7322	695.0044	669.7693	3266.7568
36-47	469.8697	951.7177	3022.3960	446.6993	1064.1753	2933.2470
48-59	-466.3965	179.7222	4305.2795	-539.6389	359.7634	4246.7806
MSE =	22754414			MSE =	22821865	

(continued)

Table VI-B-5.3 (continued)

Age of Child (m)	Sex Adjusted WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Thiamin (mg)						
12-23	0.0763	-0.0377	0.9197	0.0528	-0.0612	0.9239
1-11	0.0875	-0.0133	1.0122	0.0609	-0.0351	1.0101
24-35	0.1079*	-0.0191	0.9994	0.0844	-0.0249	1.0144
36-47	0.0348	0.0831	0.9900	0.0110	0.0730	1.0098
48-59	0.1392	0.1082	1.0406*	0.1199	0.1034	1.0678
MSE =	0.211			MSE =	0.21	
Total Intake Adjusted for Caloric Intake						
Riboflavin (mg)						
12-23	0.0544	-0.0222	1.6053	0.0551	-0.0209	1.5774
1-11	-0.1496	0.0964	1.7914	-0.1606	0.1237	1.7351
24-35	0.1494	0.0968	1.3987	0.1474	0.1162	1.4165
36-47	-0.0171	-0.0247	1.4171	-0.0297	-0.0137	1.4452
48-59	0.1252	0.1888	1.3577	0.1054	0.2244*	1.3893
MSE =	0.664			MSE =	0.658	
Niacin (mg)						
12-23	1.4049*	-0.3125	9.4430	1.1185	-0.5814	9.6072
1-11	1.1521	0.4143	10.1755	0.7933	0.0851	10.4400
24-35	1.7099*	-0.1895	11.4383**	1.3683*	-0.2709	11.5600**
36-47	-0.3378	0.4605	11.8917***	-0.7380	0.2832	12.0359**
48-59	0.3498	1.2399	12.0457***	0.0489	1.0673	12.2242**
MSE =	41.582			MSE =	41.368	
Vitamin B6 (mg)						
12-23	0.1124	0.0098	0.9676	0.1119	-0.0136	0.9591
1-11	-0.0059	0.1013	0.8935	-0.0074	0.1045	0.8746
24-35	0.0648	-0.0512	1.1435**	0.0698	-0.0522	1.1479**
36-47	-0.0176	0.0219	1.0743	-0.0192	0.0166	1.0913
48-59	0.1108	0.2312**	1.0794	0.1310	0.2419**	1.0970
MSE =	0.395			MSE =	0.393	
Vitamin B12 (mcg)						
12-23	0.3483	0.0946	3.5456	0.3105	0.0474	3.6207
1-11	-0.2680	2.8122*	3.3050	-0.2991	2.8436*	3.3802
24-35	0.9345	0.2913	2.9708	0.8853	0.3965	2.9782
36-47	0.3554	0.4443	2.8516	0.2172	0.5180	2.7717
48-59	-0.3067	0.8564	3.5219	-0.2770	1.0873	3.2992
MSE =	28.241			MSE =	28.304	
Vitamin C (mg)						
12-23	10.6063	-5.8975	83.5032	11.9453	-7.3883	82.1725
1-11	18.8028	-8.4374	104.8024*	22.5207*	-3.7450	100.8110
24-35	11.0109	-13.6019	95.1579	11.5692	-14.3751	94.7487
36-47	-8.1935	11.2904	89.3651	-6.3056	9.9253	90.8480
48-59	13.1562	5.0584	100.4841	16.7340	2.5409	104.2029*
MSE =	6465.274			MSE =	6345.506	

(continued)

Table VI-B-5.3 (continued)

Age of Child (m)	Sex Adjusted WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Intake from Potential WIC Foods</u>						
Calories (kcal)						
12-23	25.4829	-0.9122	414.7863	20.8860	-9.4646	408.5770
1-11	104.7011**	49.4874	470.0114	94.5104**	45.6928	455.5942
24-35	39.7831	15.9337	313.4016***	41.6908	15.5659	318.2996***
36-47	83.5880*	-7.3635	287.6264***	85.5079**	-7.9759	301.4128***
48-59	0.2713	25.9967	341.0327**	1.1547	27.6614	357.6679
MSE =	53538.53			MSE =	52196.49	
Protein (g)						
12-23	-0.4806	-0.0563	22.0099	-0.4951	-0.2782	21.6353
1-11	-3.6323*	4.3847	21.3052	-4.1663**	3.9917	20.8018
24-35	0.6468	0.7668	16.2858***	0.8602	0.8392	16.4787***
36-47	2.1731	-1.1975	15.0908***	2.4967	-1.0800	15.5838***
48-59	-0.2447	1.2968	16.8939***	-0.2298	1.5868	17.3778**
MSE =	130.837			MSE =	124.99	
Fat (g)						
12-23	-0.1431	-0.5010	20.7791	-0.3210	-0.8789	20.6905
1-11	5.8637**	1.7173	22.2199	5.1500**	0.9545	22.2881
24-35	1.1032	1.2454	15.0519***	1.0376	1.1030	15.2486***
36-47	1.8480	-0.7703	13.7531***	1.7208	-0.8698	14.1996***
48-59	-0.3970	1.3791	15.1805***	-0.6752	1.4984	15.5003**
MSE =	135.343			MSE =	131.888	
Carbohydrate (g)						
12-23	6.5308*	0.7843	35.9987	6.0051*	-0.2444	35.1997
1-11	6.9792	5.5076	43.7668*	6.7318	6.5337	41.0590
24-35	6.6929*	0.4959	29.0956*	7.2872*	0.7554	29.5161
36-47	14.6577**	1.0256	26.7096**	15.3465**	0.9063	28.3235
48-59	1.5103	2.2790	35.2970	2.4714	2.1258	37.5033
MSE =	855.044			MSE =	844.204	
Calcium (mg)						
12-23	-5.6754	-11.4009	634.3591	-3.1185	-5.9147	613.7071
1-11	187.4233**	81.9916	724.0222*	-195.2842**	83.1622	685.9580
24-35	37.6515	25.5836	426.3474***	45.4328	37.4039	429.6384***
36-47	40.1665	-34.1041	384.5608***	45.0307	-28.1420	407.3818***
48-59	24.0496	57.9291	408.6424***	13.8385	63.5885	442.8937***
MSE =	124674.4			MSE =	121786	
Iron (mg)						
12-23	1.6917*	-0.7660	3.4325	1.3120	-0.9849	3.0288
1-11	9.1092**	-0.3336	8.6591***	8.6412**	-0.1313	7.5384***
24-35	2.8241**	0.5432	2.3022	2.5423**	0.4200	2.6646
36-47	4.7822**	0.6010	2.3504	4.6312**	0.5748	3.1762
48-59	0.2546	0.8321	3.4962	0.2439	0.7332	4.9358
MSE =	83.306			MSE =	83.035	
Magnesium (mg)						
12-23	3.8220	-1.7734	88.1748	3.1855	-2.8934	86.6634
1-11	-13.8925*	22.8201*	91.9951	-15.9125*	21.7305*	89.0172
24-35	5.0823	4.2019	66.0776***	6.3284	5.2510	66.8231***
36-47	7.9317	-6.1091	61.8689***	9.2055	-5.6475	64.2103***
48-59	2.1889	3.4242	75.2292*	2.3200	4.2345	77.7422
MSE =	2630.199			MSE =	2551.436	

(continued)

Table VI-B-5.3 (continued)

Age of Child (m)	Sex Adjusted WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Phosphorus (mg)						
12-23	-1.9572	-1.5242	556.1672	-0.3598	-2.6466	542.0244
1-11	-158.7893**	112.7365	576.7875	-169.8128**	108.9242	554.3589
24-35	25.0173	21.0068	399.0471***	32.8168	26.8667	403.1542***
36-47	38.3355	-34.9454	367.7680***	46.1087	-30.4160	383.3043***
48-59	13.3495	41.6333	405.9812***	11.4442	49.2701	425.5938**
MSE =	86211.66			MSE =	83105.11	
Vitamin A (IU)						
12-23	344.6587*	77.1643	991.6515	288.1459*	15.4719	965.2253
1-11	580.1041**	252.5925	1152.9065	526.5595**	307.3006	1040.6945
24-35	603.1635**	41.4823	925.2838	585.5239**	28.0632	963.8964
36-47	792.3210**	140.9210	860.3571	759.0060**	127.3691	950.2192
48-59	255.7511	256.7510	1089.8802	271.4791	252.2378	1228.8523
MSE =	2229141			MSE =	2225445	
Thiamin (mg)						
12-23	0.1148*	-0.0081	0.3491	0.0969*	-0.0269	0.3339
1-11	0.1490*	0.0635	0.5104*	0.1270	0.0791	0.4625*
24-35	0.2079**	0.0362	0.2909	0.2012**	0.0332	0.3065
36-47	0.2562**	0.0484	0.2746	0.2528**	0.0449	0.3105
48-59	0.0631	0.0582	0.3803	0.0670	0.0543	0.4390
MSE =	0.245			MSE =	0.244	
Riboflavin (mg)						
12-23	0.0846	-0.0106	0.9408	0.0703	-0.0248	0.9075
1-11	-0.0724	0.1351	1.1316*	-0.1048	0.1481	1.0545
24-35	0.2548**	0.0728	0.6765***	0.2546**	0.0762	0.6969**
36-47	0.2979**	-0.0032	0.6273***	0.2962**	-0.0008	0.6828**
48-59	0.0997	0.1401	0.7052**	0.0938	0.1477	0.7882**
MSE =	0.492			MSE =	0.487	
Niacin (mg)						
12-23	1.3589*	-0.3761	2.1139	1.1162*	-0.5552	1.9712
1-11	2.1278**	0.8000	3.6399	1.8760*	0.9773	3.1429
24-35	2.6225**	0.5553	1.8139	2.4898**	0.5349	1.9814
36-47	3.1731**	0.6118	1.8242	3.0541**	0.5688	2.2147
48-59	0.8624	0.6620	2.7918	0.8942	0.6147	3.4447
MSE =	38.142			MSE =	38.061	
Vitamin B6 (mg)						
12-23	0.1362*	0.0305	0.3117	0.1160*	0.0001	0.3028
1-11	0.0562	0.1291	0.3243	0.0313	0.1414	0.2880
24-35	0.2438**	0.0498	0.2997	0.2409**	0.0409	0.3170
36-47	0.3211**	0.0356	0.2859	0.3194**	0.0306	0.3177
48-59	0.0743	0.0897	0.3975	0.0917	0.0960	0.4379
MSE =	0.351			MSE =	0.35	
Vitamin B12 (mcg)						
12-23	0.2638	0.0984	2.1737	0.2145	0.0175	2.1299
1-11	-0.3776	0.5460	2.1614	-0.4737	0.5633	2.0338
24-35	0.8084**	0.1973	1.7021*	0.8048**	0.1814	1.7549
36-47	0.9776**	0.0288	1.6164*	0.9597**	0.0130	1.7367
48-59	0.2916	0.4179	1.8135	0.3142	0.4465	1.9549
MSE =	4.212			MSE =	4.179	

(continued)

Table VI-B-5.3 (continued)

Age of Child (m)	Sex Adjusted WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Vitamin C (mg)						
12-23	16.2437**	2.3635	31.7485	16.4480**	0.3094	31.9275
1-11	27.5995**	-4.9796	45.2701	30.6036**	0.1142	43.4271
24-35	12.0437	-5.4817	38.8922	13.9670	-5.1758	38.1902
36-47	12.3422	10.2245	33.3652	14.1059	9.2657	33.3505
48-59	5.5501	- 3.3114	53.0277**	8.2872	-5.0309	53.4266*
MSE =	4705.056			MSE =	4669.235	
<u>Age of Child (m)</u>	<u>Current WIC</u>	<u>Past WIC</u>	<u>Controls</u>	<u>Total</u>		
12-23	252	167	224	644		
1-11	178	32	84	294		
24-35	162	174	192	528		
36-47	71	158	143	372		
48-59	48	106	119	273		
Total	711	637	763	2,111		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship;
see Vol. II, Table VI-1 for full covariate list.

Table VI-B-5.4

Proportion of Children with Diets Below 100 Percent of the
Recommended Energy Intake and Below 77 Percent of the
Recommended Daily Allowance by Age of the Child.

Age of Child (m)	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Proportion below RDA level</u>						
Calories <100 Percent RDA						
12-23	0.0109	-0.0221	0.5571	0.0228	-0.0165	0.5525
1-11	-0.0599	-0.2075*	0.5839	-0.0341	-0.1782	0.5645
24-35	-0.0810	-0.0229	0.6778**	-0.0694	-0.0192	0.6811**
36-47	-0.1462*	-0.0297	0.8021***	-0.1091	-0.0087	0.7801***
48-59	0.0930	0.0251	0.6541	0.1217	0.0544	0.6276
	MSE = 0.2270165			MSE = 0.2254802		
Protein <77 Percent RDA						
12-23	0.0126	0.0035	0.0273	0.0134	0.0030	0.0239
1-11	-0.0079	0.0153	0.0479	-0.0075	0.0237	0.0387
24-35	-0.0247	-0.0101	0.0732	-0.0189	-0.0073	0.0720
36-47	0.0413	-0.0286	0.1110**	0.0329	-0.0342	0.1189***
48-59	-0.0182	-0.0059	0.1003**	-0.0098	-0.0018	0.1052*
	MSE = 0.05839199			MSE = 0.05683277		
Calcium <77 Percent RDA						
12-23	-0.0080	0.0657	0.2582	-0.0030	0.0506	0.2778
1-11	0.0540	-0.0176	0.1430	0.0669	-0.0135	0.1814
24-35	-0.0264	0.0049	0.4950**	-0.0289	-0.0097	0.4945***
36-47	-0.1376*	0.0055	0.6148**	-0.1118	0.0029	0.5830***
48-59	-0.0214	-0.0206	0.5206**	0.0079	-0.0065	0.4682**
	MSE = 0.2183668			MSE = 0.2135521		
Iron <77 Percent RDA						
12-23	-0.0786	0.0281	0.8050	-0.0755	0.0272	0.8058
1-11	-0.3001**	0.1402	0.5478***	-0.2976**	0.1553	0.5444***
24-35	-0.1350**	-0.0177	0.7763	-0.1284**	-0.0194	0.7758
36-47	-0.1512*	-0.0353	0.7126	-0.1451*	-0.0358	0.7084
48-59	0.0333	-0.0204	0.4449***	0.0357	-0.0183	0.4422***
	MSE = 0.2007066			MSE = 0.2018559		
Magnesium <77 Percent RDA						
12-23	0.0240	0.0355	0.0677	0.0273	0.0273	0.0842
1-11	0.0267	-0.0351	0.0361	0.0381	-0.0269	0.0651
24-35	-0.0199	-0.0326	0.3026***	-0.0173	-0.0401	0.3008***
36-47	-0.0774	0.0473	0.3833***	-0.0689	0.0425	0.3633***
48-59	-0.0623	-0.0219	0.3521***	-0.0441	-0.0116	0.3025***
	MSE = 0.1522431			MSE = 0.1505528		
Phosphorus <77 Percent RDA						
12-23	-0.0002	0.0028	0.1115	-0.0045	-0.0174	0.1348
1-11	-0.0107	-0.0638	0.0954	-0.0078	-0.0569	0.1333
24-35	0.0192	0.0086	0.3075***	0.0130	0.0008	0.3064***
36-47	-0.0969	-0.0289	0.3771***	-0.0996	-0.0411	0.3597***
48-59	-0.1322	-0.0171	0.3190***	-0.1240	-0.0111	0.2752*
	MSE = 0.1619644			MSE = 0.1588895		
Vitamin A <77 Percent RDA						
12-23	-0.0393	0.0103	0.2538	-0.0571	-0.0099	0.2816
1-11	-0.0659	0.0717	0.1787	-0.0865	0.0556	0.2163
24-35	-0.0987*	0.0163	0.2710	-0.1004*	0.0023	0.2757
36-47	-0.0622	-0.0495	0.3281	-0.0758	-0.0627	0.3170
48-59	0.0311	-0.0011	0.2181	0.0477	0.0084	0.1768
	MSE = 0.1788266			MSE = 0.1769867		

(continued)

Table VI-B-5.4 (continued)

Age of Child (m)	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Proportion below RDA level</u>						
Thiamin <77 Percent RDA						
12-23	0.0414	0.0325	0.0937	0.0432	0.0278	0.0968
1-11	-0.0375	0.0225	0.0715	-0.0321	0.0480	0.0683
24-35	-0.0395	-0.0530	0.1564*	-0.0235	-0.0459	0.1525
36-47	-0.0139	-0.0078	0.1534	-0.0122	-0.0111	0.1491
48-59	-0.0514	-0.0493	0.1342	-0.0364	-0.0415	0.1202
	MSE = 0.1010422			MSE = 0.09962211		
Riboflavin <77 Percent RDA						
12-23	0.0017	0.0141	0.0578	-0.0037	0.0043	0.0759
1-11	-0.0195	-0.0476	0.0476	-0.0259	-0.0451	0.0800
24-35	-0.0614*	-0.0320	0.1354**	-0.0622*	-0.0376	0.1345*
36-47	-0.0273	-0.0195	0.1398**	-0.0380	-0.0299	0.1288
48-59	-0.1012*	-0.0390	0.1428**	-0.1039*	-0.0431	0.1120
	MSE = 0.07792523			MSE = 0.07671466		
Niacin <77 Percent RDA						
12-23	-0.0203	0.0921*	0.3341	-0.0107	0.0874	0.3305
1-11	-0.1065	-0.0606	0.4050	-0.0803	-0.0128	0.3781
24-35	-0.0958	-0.0188	0.3233	-0.0629	-0.0102	0.3210
36-47	-0.0420	-0.0154	0.3067	-0.0106	-0.0040	0.2957
48-59	-0.0445	-0.0628	0.2515	0.0045	-0.0299	0.2185
	MSE = 0.2102259			MSE = 0.2062984		
Vitamin B6 <77 Percent RDA						
12-23	-0.0627	-0.0015	0.2889	-0.0691	-0.0017	0.3104
1-11	0.0455	-0.0655	0.1905	0.0563	-0.0556	0.2090
24-35	-0.0494	-0.0230	0.3333	-0.0441	-0.0206	0.3291
36-47	-0.0184	-0.0062	0.3986*	-0.0216	-0.0096	0.3795
48-59	-0.0280	-0.0877	0.3613	-0.0137	-0.0828	0.3163
	MSE = 0.2070641			MSE = 0.2056535		
Vitamin B12 <77 Percent RDA						
12-23	-0.0120	0.0326	0.1112	-0.0251	0.0094	0.1325
1-11	-0.0185	-0.0059	0.1310	-0.0206	-0.0038	0.1561
24-35	-0.0370	0.0357	0.2344**	-0.0429	0.0285	0.2335*
36-47	-0.1106*	-0.0747	0.3216***	-0.1176*	-0.0862	0.3119***
48-59	0.0223	-0.1222*	0.3109***	0.0342	-0.1230*	0.2907**
	MSE = 0.150518			MSE = 0.1485611		
Vitamin C <77 Percent RDA						
12-23	-0.0194	0.0299	0.2931	-0.0345	0.0258	0.2984
1-11	-0.1182*	0.0163	0.2023	-0.1369*	-0.0034	0.2029
24-35	-0.0592	0.0427	0.2447	-0.0531	0.0523	0.2441
36-47	0.0378	-0.0592	0.2870	0.0183	-0.0637	0.2970
48-59	-0.0597	-0.0058	0.1851*	-0.0542	0.0090	0.1817*
	MSE = 0.178029			MSE = 0.1762134		
n	<u>Current WIC</u>	<u>Past WIC</u>	<u>Never</u>	<u>Total</u>		
12-23	252	167	224	644		
1-11	178	32	84	294		
24-35	162	174	192	528		
36-47	71	158	143	372		
48-59	48	106	119	273		
Total	711	637	762	2,111		

* p < 0.05.

** p < 0.01.

***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship.
See Vol. II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-B-5.5
Mean Dietary Intake and Ethnicity

Ethnic Group	Age ^a and Sex Adjusted WIC status			Fully Adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Calories (kcal)						
White Nonhispanic	-3.7977	-1.4231	1154.1161	-14.6103	- 9.0484	1161.9840
White Hispanic	13.6389	-43.1640	1105.4832	3.1105	-52.4870	1142.9620
Black	68.8577	46.4692	1077.7727	34.2617	24.6293	1074.1401*
Other	-31.0296	260.9687*	1011.4426	-41.9191	233.5194	1038.1317
MSE =	194101.1			MSE =	190347.2	
Protein (g)						
White Nonhispanic	-1.9326	-0.5891	41.2302	-2.4257	-1.0250	41.8729
White Hispanic	-2.1248	-2.0764	43.0818	-2.5945	-2.6823	43.9902
Black	3.8343	3.9310	38.2122	2.4474	3.2280	37.9495*
Other	-5.5205	9.4064	38.2947	-6.7914	8.5728	39.0336
MSE =	365.281			MSE =	357.147	
Fat (g)						
White Nonhispanic	0.8282	-0.0729	43.1940	0.0240	-0.9299	44.0529
White Hispanic	-0.6336	-3.0594	42.2892	-1.2966	-3.4781	43.3604
Black	3.8866	3.6549	38.5421*	2.1424	2.3745	38.5089**
Other	-4.9982	13.7179*	38.3791	-5.8505	12.7274*	39.3331
MSE =	436.04			MSE =	426.489	
Carbohydrate (g)						
White Nonhispanic	-3.8390	1.7651	153.6447	-3.7561	2.4938	152.6419
White Hispanic	5.7677	-1.6768	140.5277*	5.3837	-2.4313	147.0344
Black	3.7786	-0.7930	146.7467	0.8433	-2.2861	145.8016
Other	6.8722	25.4269	131.5502	7.7074	21.3312	135.6324
MSE =	4246.531			MSE =	4189.709	
Calcium (mg)						
White Nonhispanic	-64.2411*	4.0800	745.2170	-75.9138**	-0.2362	752.8419
White Hispanic	-15.1375	23.9969	713.9660	-31.8420	9.7838	735.2669
Black	110.0309**	68.7739	555.4428***	92.6361*	65.1747	550.3933***
Other	-158.8060	-25.4372	767.2140	-210.1270	48.2282	788.3324
MSE =	146707.3			MSE =	144707.5	
Iron (mg)						
White Nonhispanic	3.1624**	-0.2679	10.6860	2.8040**	-0.3823	10.8325
White Hispanic	2.3259	-0.3748	9.4243	2.0453	-0.4460	9.6130
Black	2.8600**	1.1442	9.9952	2.3940*	0.8138	10.2355
Other	1.0191	2.4996	9.3402	0.8522	2.4951	9.5920
MSE =	80.025			MSE =	80.051	
Magnesium (mg)						
White Nonhispanic	-9.9416	-0.7415	169.0735	-10.7781*	-1.0077	169.4106
White Hispanic	-1.5995	-4.8436	162.2229	-2.7130	-7.4309	166.3158
Black	11.8293	4.5634	150.2357*	8.4361	4.4826	149.6962*
Other	3.1097	24.0195	157.6108	-1.9924	19.1958	160.4112
MSE =	6158.801			MSE =	6054.945	
Phosphorus (mg)						
White Nonhispanic	-61.5307*	3.1428	834.0551	-75.2410**	-6.5096	846.5897
White Hispanic	-41.7562	-21.9986	845.4527	-51.5632	-33.7344	859.9652
Black	88.3487*	72.4573	674.8518***	65.7077	64.5312	671.1602
Other	-95.9095	89.5846	787.9036	-138.1262	63.9396	807.3868
MSE =	137775.3			MSE =	136205.3	
Vitamin A (IU)						
White Nonhispanic	332.6866	189.3565	3832.5792	232.7973	209.5795	3856.8593
White Hispanic	574.9482	893.1265	3393.7916	664.1524	1005.4137	3419.1677
Black	587.8298	649.4863	3406.8475	433.1953	695.0456	3404.8496
Other	-642.3313	-9.5414	3967.4052	-844.5281	-128.5569	4098.3354
MSE =	24318506			MSE =	24393374	

(continued)

Table VI-B-5.5 (continued)

Ethnic Group	Age ^a and Sex Adjusted WIC status			Fully Adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Calcium (mg)						
White Nonhispanic	-62.3130**	4.8026	734.0868	-68.4917**	4.3605	737.7082
White Hispanic	-22.0622	45.9119	727.5274	-33.4222	36.4477	729.7966
Black	75.0708*	45.1807	583.0733***	75.2309*	52.6627	579.8852***
Other	-143.0518	-157.9351	828.5213	-188.8317	-166.8582*	836.1169
MSE =	96719.01			MSE =	95630.14	
Iron (mg)						
White Nonhispanic	3.1931**	-0.2563	10.5082	2.9244**	-0.3077	10.5869
White Hispanic	2.2153*	-0.0248	9.6409	2.0197	-0.0133	9.5242
Black	2.3016**	0.7674	10.4365	2.1116*	0.6107	10.7141
Other	1.2707	0.3834	10.3194	1.1978	0.5701	10.3674
MSE =	67.294			MSE =	67.148	
Magnesium (mg)						
White Nonhispanic	-9.4378**	-0.5527	166.1652	-8.8399*	0.1926	165.4588
White Hispanic	-3.4089	0.8828	165.7665	-3.1256	-0.4683	164.8873
Black	2.6943	-1.6015	157.4555	3.8912	1.2155	157.3972
Other	7.2263	-10.6020	173.6303	3.5684	-11.7815	172.8889
MSE =	2743.914			MSE =	2706.701	
Phosphorus (mg)						
White Nonhispanic	-59.0877**	4.0583	819.9529	-65.8466**	-0.6915	827.4347
White Hispanic	-50.5299	5.7680	862.6352	-53.5632	0.0146	853.0413
Black	44.0537	42.5644	709.8600***	43.6775	48.6946	708.4886***
Other	-75.9487	-78.2923	865.5809	-111.1724	-86.2127	867.8685
MSE =	57481.03			MSE =	56534.49	
Vitamin A (IU)						
White Nonhispanic	343.1232	193.2674	3772.3332	273.8083	234.9785	3773.2383
White Hispanic	537.4661	1011.7484	3467.1970	655.4212	1152.7448*	3388.9415
Black	398.5973	521.7811	3556.4061	337.0228	625.9110	3567.8067
Other	-557.0566	-726.7276	4299.2501	-726.8612	-784.0461	4362.3680
MSE =	22863478			MSE =	22904656	
Thiamin (mg)						
White Nonhispanic	0.0927**	-0.0039	0.9855	0.0776*	-0.0108	0.9947
White Hispanic	0.0757	-0.0622	0.9560	0.0749	-0.0632	0.9453
Black	0.1011*	0.0788	0.9849	0.0934	0.0753	0.9914
Other	0.0835	0.1191	0.9447	0.0703	0.1069	0.9618
MSE =	0.211			MSE =	0.211	
Riboflavin (mg)						
White Nonhispanic	-0.0141	0.0154	1.5730	-0.0441	-0.0016	1.5909
White Hispanic	0.2023	0.0542	1.5054	0.2030	0.0663	1.4745
Black	0.1685	0.1926*	1.3182*	0.1641	0.1968*	1.3284**
Other	-0.1654	0.0724	1.5277	-0.2370	0.0799	1.5471
MSE =	0.661			MSE =	0.658	
Niacin (mg)						
White Nonhispanic	1.2435**	-0.4173	10.9274	1.0995*	-0.4985	10.9769
White Hispanic	0.7463	-0.9595	10.2372	0.8133	-0.8754	10.0834
Black	0.9237	0.9613	11.2644	0.7767	0.9027	11.4398
Other	1.1255	3.3697	9.6842	0.9667	3.4428	9.8193
MSE =	41.52			MSE =	41.549	
Vitamin B6 (mg)						
White Nonhispanic	0.0737	-0.0149	1.0083	0.0698	-0.0194	1.0034
White Hispanic	0.1176	-0.0266	1.0855	0.1408	-0.0183	1.0586
Black	0.0544	0.0804	1.0458	0.0523	0.0794	1.0721
Other	0.2280	0.3355	0.9923	0.2234	0.3456*	0.9947
MSE =	0.396			MSE =	0.395	

(continued)

Table VI-B-5.5 (continued)

Ethnic Group	Age ^a and Sex Adjusted WIC status			Fully Adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Thiamin (mg)						
White Nonhispanic	0.0898*	-0.0050	1.0026	0.0661	-0.0179	1.0181
White Hispanic	0.0863	-0.0958	0.9352	0.0773	-0.1044	0.9538
Black	0.1547*	0.1150	0.9426	0.1203	0.0946	0.9459
Other	0.0594	0.3222*	0.8507	0.0374	0.2902	0.8880
MSE =	0.328			MSE =	0.328	
Riboflavin (mg)						
White Nonhispanic	-0.0184	0.0138	1.5980	-0.0610	-0.0121	1.6254
White Hispanic	0.2179	0.0051	1.4750	0.2066	0.0055	1.4870
Black	0.2469*	0.2456*	1.2562***	0.2038*	0.2253*	1.2612
Other	-0.2007	0.3696	1.3901	-0.2856	0.3502	1.4382
MSE =	0.912			MSE =	0.912	
Niacin (mg)						
White Nonhispanic	1.2078*	-0.4307	11.1334	0.9613	-0.5841	11.2587
White Hispanic	0.8745	-1.3651	9.9862	0.8427	-1.3719	10.1853
Black	1.5708	1.3980	10.7530	1.1008	1.1357	10.8906
Other	0.8339	5.8221**	8.5495	0.5702	5.6519**	8.9295
MSE =	58.641			MSE =	58.554	
Vitamin B6 (mg)						
White Nonhispanic	0.0704	-0.0161	1.0274	0.0569	-0.0274	1.0296
White Hispanic	0.1294	-0.0641	1.0623	0.1436	-0.0646	1.0681
Black	0.1143	0.1208	0.9985	0.0825	0.1011	1.0209
Other	0.2010	0.5622**	0.8874	0.1864	0.5514**	0.9118
MSE =	0.542			MSE =	0.542	
Vitamin B12 (mcg)						
White Nonhispanic	0.0462	0.3660	3.5840	-0.1617	0.2247	3.7529
White Hispanic	1.2128	1.0564	2.9698	1.2562	1.1875	2.8305
Black	0.8105	0.7762	2.5094	0.5922	0.7119	2.5572
Other	-0.2613	1.1325	2.6905	-0.6656	1.1014	2.8205
MSE =	29.802			MSE =	29.926	
Vitamin C (mg)						
White Nonhispanic	5.5504	-4.9088	88.8014	8.4942	-1.7102	84.4578
White Hispanic	22.3385	3.2292	86.4262	22.5933*	2.7944	92.7887
Black	9.4842	-11.5554	108.2545*	10.6260	-12.1880	108.5199**
Other	73.9699**	22.2453	94.7686	82.2087*	21.2323	96.4346
MSE =	7006.161			MSE =	6970.654	
Protein (g)						
White Nonhispanic	-1.8007*	-0.5397	40.4691	-1.9209*	-0.7124	40.8436
White Hispanic	-2.5984	-0.5777	44.0092***	-2.7019	-0.8688	43.6181*
Black	1.4435	2.3175	40.1017	1.2636	2.3770	39.9554
Other	-4.4431	0.3453	42.4873	-5.3430	0.5041	42.2836
MSE =	131.349			MSE =	129.961	
Fat (g)						
White Nonhispanic	0.9816	-0.0155	42.3088	0.6124	-0.5655	42.8532
White Hispanic	-1.1843	-1.3164	43.3678	-1.4219	-1.3644	42.9268
Black	1.1061	1.7784	40.7397	0.7627	1.3826	40.8468
Other	-3.7452	3.1797	43.2552	-4.1624	3.3232	43.1211
MSE =	119.587			MSE =	117.841	
Carbohydrate (g)						
White Nonhispanic	-3.3530	1.9472	150.8392	-1.8806	3.6553	148.8178
White Hispanic	4.0223	3.8470	143.9460*	4.9844	4.3064	145.6521
Black	-5.0333	-6.7399	153.7112	-3.5548	-5.4477	153.2539
Other	10.8431	-7.9701	147.0031	13.0885	-8.6453	147.7070
MSE =	1068.221			MSE =	1053.593	

(continued)

Table VI-B-5.5 (continued)

Ethnic Group	Age ^a and Sex Adjusted WIC status			Fully Adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Vitamin B12 (mcg)						
White Nonhispanic	0.0567	0.3700	3.5229	-0.1200	0.2505	3.6680
White Hispanic	1.1748	1.1768	3.0443	1.2474	1.3372*	2.7998
Black	0.6185	0.6466	2.6612	0.4945	0.6417	2.7228
Other	-0.1748	0.4046	3.0273	-0.5460	0.4355	3.0888
MSE =	28.305			MSE =	28.391	
Vitamin C (mg)						
White Nonhispanic	5.7572	-4.8313	87.6076	9.3070	-1.2069	82.8006
White Hispanic	21.5958*	5.5798	87.8808	22.4203*	5.7142	92.1896
Black	5.7344	-14.0859	111.2180***	8.7200	-13.5581	111.7494***
Other	75.6596*	8.0340	101.3442	84.5406**	8.2419	101.6672
MSE =	6433.634			MSE =	6384.697	
Calories (kcal)						
White Nonhispanic	45.8791**	22.0152	352.4399	35.2147*	14.3511	364.0892
White Hispanic	32.0907	-3.4785	432.1904***	22.3915	-13.3010	427.7170***
Black	104.0736**	39.4271	316.3102	88.8761**	32.6391	320.0904
Other	-35.0844	-18.8767	421.5792	-63.2594	-26.9551	426.0226
MSE =	52949.11			MSE =	52291.1	
Protein (g)						
White Nonhispanic	-0.9868	0.7627	18.1693	-1.5227	0.3345	18.8975
White Hispanic	-1.8114	-0.5094	22.6457***	-2.1436	-0.9443	22.2669
Black	3.8849**	2.5002*	14.5166	3.1122*	2.2581	14.5002
Other	-7.3518	-0.9865	20.7017	-9.0415*	-1.6256	20.9504
MSE =	130.852			MSE =	127.79	
Fat (g)						
White Nonhispanic	2.0641*	1.1546	16.9254	1.4733	0.6125	17.6696
White Hispanic	-1.1824	-0.4987	21.0076***	-1.5557	-0.8964	20.5407*
Black	3.8035**	1.8738	15.2293	2.8204*	1.3653	15.5041
Other	-5.5304	-1.5741	20.5342	-7.3347	-1.7743	20.6780
MSE =	134.914			MSE =	132.564	
Carbohydrate (g)						
White Nonhispanic	5.1069*	1.8542	32.2873	4.5404*	1.6612	32.7020
White Hispanic	10.8537**	0.0314	38.7758*	9.7970*	-1.0426	39.2168*
Black	12.8429**	3.3444	30.2683	12.2821**	3.3061	30.2673
Other	8.0147	-0.1691	39.2349	6.7599	-1.4211	39.9479
MSE =	846.042			MSE =	842.689	
Calcium (mg)						
White Nonhispanic	-49.4745*	17.2209	534.9705	-60.5029*	11.4890	547.2707
White Hispanic	-35.8385	25.0167	569.7601	-50.7191	11.7256	573.2294
Black	108.4888**	67.7368	388.9136***	95.3230*	66.2751	384.1642***
Other	-226.1831	-90.1186	628.6945	-278.1525*	-107.9617	642.6279
MSE =	125257.6			MSE =	123858.1	

(continued)

Table VI-B-5.5 (continued)

Ethnic Group	Age ^a and Sex Adjusted WIC status			Fully Adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Iron (mg)						
White Nonhispanic	4.0120**	-0.0513	3.6988	3.6490**	-0.1903	3.8697
White Hispanic	4.8580**	0.3316	3.7070	4.4157**	0.1135	3.7039
Black	2.9352**	0.9564	3.7486	2.6335**	0.7448	4.0305
Other	0.1922	1.2635	4.2108	-0.0998	1.2716	4.3530
MSE =	87.768			MSE =	87.347	
Magnesium (mg)						
White Nonhispanic	-1.4660	3.8969	75.2576	-3.3924	2.5376	77.8601
White Hispanic	-4.5412	-1.6564	90.0149**	-5.7448	-3.5540	88.3232*
Black	17.2915**	7.0135	62.8106*	14.8260**	6.7262	62.6780**
Other	-20.4779	-9.4487	89.9282	-26.9369	-12.6074	90.6406
MSE =	2647.079			MSE =	2598.102	
Phosphorus (mg)						
White Nonhispanic	-36.0254	20.7098	464.8272	-48.1766 *	12.1182	479.9503
White Hispanic	-49.4236	0.4229	546.4035**	-58.1404	-9.8659	540.4183*
Black	93.3260**	61.2344	355.2239***	78.0677*	57.0551	354.0412***
Other	-162.9689	-58.5255	542.7399	-206.8844	-75.9227	551.3300
MSE =	87451.23			MSE =	85855.21	
Vitamin A (IU)						
White Nonhispanic	461.7479**	-6.2972	1018.6108	407.7117**	-34.5973	1050.6419
White Hispanic	875.2309**	84.1572	996.2492	807.2506**	40.9896	1017.6901
Black	532.6600**	291.5030	872.9196	479.6307**	252.9226	895.5590
Other	102.4165	739.2580	959.6310	33.1337	696.4341	1049.1284
MSE =	2224557			MSE =	2220704	
Thiamin (mg)						
White Nonhispanic	0.1485**	-0.0080	0.3493	0.1330**	-0.0126	0.3571
White Hispanic	0.2482**	0.0164	0.3556	0.2268**	0.0036	0.3612
Black	0.1751**	0.0885	0.3198	0.1639**	0.0808	0.3255
Other	-0.0408	0.1548	0.3793	-0.0589	0.1384	0.4020
MSE =	0.244			MSE =	0.244	
Riboflavin (mg)						
White Nonhispanic	0.0972*	0.0076	0.8350	0.0662	-0.0106	0.8608
White Hispanic	0.2094*	0.0329	0.8777	0.1749	0.0081	0.8788
Black	0.2609**	0.1707*	0.6389**	0.2326**	0.1565*	0.6435**
Other	-0.2827	0.1407	0.9104	-0.3661	0.1132	0.9510
MSE =	0.491			MSE =	0.488	
Niacin (mg)						
White Nonhispanic	2.0339**	-0.1911	2.4471	1.8738**	-0.2426	2.4879
White Hispanic	3.2331**	0.0718	1.7894	3.0481**	-0.0154	1.8077
Black	1.5293*	0.8171	2.3414	1.4349*	0.7576	2.4653
Other	0.8347	2.7300	2.1289	0.6395	2.5895	2.4051
MSE =	38.176			MSE =	38.094	
Vitamin B6 (mg)						
White Nonhispanic	0.1627**	-0.0008	0.3065	0.1407**	-0.0158	0.3234
White Hispanic	0.2756**	-0.0061	0.3714	0.2607**	-0.0183	0.3563
Black	0.1843**	0.1266*	0.2702	0.1662**	0.1151	0.2839
Other	0.0377	0.2727	0.3125	0.0008	0.2552	0.3389
MSE =	0.35			MSE =	0.35	
Vitamin B12 (mcg)						
White Nonhispanic	0.2917*	0.0304	1.9233	0.1971	-0.0431	2.0082
White Hispanic	0.6901*	0.0338	2.1499	0.6042*	-0.0230	2.1345
Black	0.6932**	0.5232*	1.4855*	0.6087**	0.4732*	1.5018
Other	-0.3860	0.7625	2.0009	-0.5938	0.7035	2.1197
MSE =	4.246			MSE =	4.235	
Vitamin C (mg)						
White Nonhispanic	9.2264	-0.1783	36.3979	11.6724**	2.2514**	33.5688
White Hispanic	36.4417**	4.0179	35.1607	36.5483**	3.2218**	39.7405
Black	13.8995	-6.0137	49.2573	15.7714**	-5.7842**	47.9884
Other	73.2009**	13.8120	40.3913	79.0142**	12.0256**	42.6657
MSE =	4667.758			MSE =		

(continued)

Table VI-B-5.5 (continued)

Ethnic Group	Age ^a and Sex Adjusted WIC status			Fully Adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
						<u>Total</u>
White nonhispanic	241	279	471			991
White hispanic	32	34	23			89
Black	246	173	161			580
Other	<u>192</u>	<u>151</u>	<u>108</u>			<u>451</u>
Total	711	637	763			2,111

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aAge adjustment includes second order term (age²) to account for nonlinearity of relationship; see Volume II, Table VI for full list of covariates. Values are differences from control group means.

Table VI-B-5.6

Proportion of Children with Diets below 100 Percent of the
Recommended Energy Intake and below 77 Percent of the
Recommended Daily Allowances by Ethnic Group

Ethnic Group	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Proportion below RDA level						
Calories <100 Percent RDA						
White nonhispanic	0.0001	-0.0271	0.6344	0.0090	-0.0188	0.6242
White hispanic	-0.0388	0.0543	0.6436	-0.0239	0.0616	0.6217
Black	-0.1008	-0.0749	0.6784	-0.0634	-0.0517	0.6751
Other	0.1954	-0.1224	0.6077	0.2021	-0.1110	0.5942
	MSE = 0.2280679			MSE = 0.2262766		
Protein <77 Percent RDA						
White nonhispanic	-0.0013	0.0005	0.0687	0.0003	-0.0013	0.0672
White hispanic	0.0078	-0.0160	0.0431	0.0142	-0.0057	0.0375
Black	-0.0120	-0.0177	0.0775	-0.0099	-0.0203	0.0806
Other	0.0532	-0.0437	0.0856	0.0781	-0.0299	0.0782
	MSE = 0.05857121			MSE = 0.05703374		
Calcium <77 Percent RDA						
White nonhispanic	0.0203	0.0285	0.3442	0.0402	0.0417	0.3322
White hispanic	0.0536	-0.0311	0.3976	0.0878	-0.0087	0.3695
Black	-0.1792**	-0.0683	0.5758***	-0.1535**	-0.0564	0.5731***
Other	0.0191	-0.0704	0.3545	0.0558	-0.0652	0.3417
	MSE = 0.2145319			MSE = 0.2122539		
Iron <77 Percent RDA						
White nonhispanic	-0.1376**	0.0113	0.6859	-0.1338**	0.0138	0.6829
White hispanic	-0.1236*	-0.0043	0.7081	-0.1240 *	-0.0014	0.7082
Black	-0.1696**	-0.0352	0.7234	-0.1589 **	-0.0278	0.7183
Other	-0.0922	-0.1246	0.7445	-0.1003	-0.1343	0.7428
	MSE = 0.2072945			MSE = 0.208291		
Magnesium <77 Percent RDA						
White nonhispanic	0.0061	0.0167	0.1933	0.0173	0.0202	0.1891
White hispanic	-0.0056	0.0019	0.2021	0.0013	0.0110	0.1887
Black	-0.0091	-0.0033	0.2587	0.0060	0.0028	0.2545
Other	-0.2320	-0.2204*	0.3305*	-0.2204	-0.1986	0.3231
	MSE = 0.1531819			MSE = 0.1519717		
Phosphorus <77 Percent RDA						
White nonhispanic	-0.0158	-0.0159	0.2047	-0.0082	-0.0096	0.2004
White hispanic	0.1010	0.0026	0.1732	0.1020	0.0122	0.1648
Black	-0.1039*	-0.0684	0.3504***	-0.0938*	-0.0635	0.3470***
Other	-0.1516	-0.1610	0.3638*	-0.1342	-0.1485	0.3648*
	MSE = 0.1607544			MSE = 0.1594176		
Vitamin A <77 Percent RDA						
White nonhispanic	-0.0406	0.0161	0.2362	-0.0507	0.0033	0.2465
White hispanic	-0.1225*	-0.0304	0.2887	-0.1365*	-0.0256	0.2716
Black	-0.0924*	-0.0280	0.2997	-0.0875	-0.0332	0.3062
Other	-0.0309	0.0003	0.1749	-0.0095	0.0191	0.1556
	MSE = 0.1791343			MSE = 0.1774304		
Thiamin <77 Percent RDA						
White hispanic	-0.0049	-0.0009	0.1108	-0.0027	0.0003	0.1084
White hispanic	0.0165	0.0146	0.1234	0.0091	0.0183	0.1230
Black	-0.0188	-0.0316	0.1319	-0.0063	-0.0262	0.1276
Other	-0.2154	-0.1940*	0.2334*	-0.1924	-0.1871*	0.2304*
	MSE = 0.1010624			MSE = 0.09956761		

(continued)

Table VI-B-5.6 (continued)

Ethnic Group	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Proportion below RDA level</u>						
Riboflavin <77 Percent RDA						
White nonhispanic	-0.0288	-0.0218	0.0921	-0.0283	-0.0228	0.0922
White hispanic	0.0145	-0.0136	0.0793	0.0071	-0.0116	0.0879
Black	-0.0771*	-0.0431	0.1568*	-0.0755*	-0.0443	0.1511*
Other	-0.0850	-0.0733	0.1115	-0.0621	-0.0631	0.1121
	MSE = 0.07758204			MSE = 0.0766416		
Niacin <77 Percent RDA						
White nonhispanic	-0.0673*	0.0440	0.3055	-0.0643*	0.0442	0.3025
White hispanic	-0.0056	0.0258	0.3790	-0.0077	0.0318	0.3611
Black	-0.0224	-0.0065	0.2799	0.0045	0.0037	0.2797
Other	-0.1793	-0.2329	0.5143*	-0.1670	-0.2215	0.5050*
	MSE = 0.2086615			MSE = 0.2057264		
Vitamin B6 <77 Percent RDA						
White nonhispanic	-0.0162	0.0033	0.3191	-0.0119	0.0045	0.3145
White hispanic	-0.0805	-0.0068	0.2778	-0.1039	-0.0075	0.2807
Black	-0.0434	-0.0454	0.3311	-0.0169	-0.0371	0.3238
Other	-0.1018	-0.3240**	0.4010	-0.0922	-0.3078*	0.3974
	MSE = 0.2061892			MSE = 0.2049185		
Vitamin B12 <77 Percent RDA						
White nonhispanic	-0.0201	-0.0373	0.1820	-0.0161	-0.0332	0.1794
White hispanic	0.0263	-0.0337	0.1742	0.0334	-0.0267	0.1657
Black	-0.1162**	-0.0426	0.3123***	-0.1127**	-0.0389	0.3126***
Other	-0.1049	-0.1125	0.2811	-0.0774	-0.1147	0.2787
	MSE = 0.1496203			MSE = 0.1491087		
Vitamin C <77 Percent RDA						
White nonhispanic	-0.0759*	0.0144	0.2857	-0.0900**	-0.0009	0.3052
White hispanic	0.0016	0.0564	0.2221	-0.0077	0.0606	0.1861**
Black	0.0113	0.0303	0.1824*	0.0014	0.0255	0.1927**
Other	-0.2795	-0.2093	0.2940	-0.2931	-0.1983	0.2779
	MSE = 0.178923			MSE = 0.1777754		
MSE =	4.245					
<hr/>						
Ethnic Group	Current WIC	Past WIC	Control	Total		
n						
White nonhispanic	402	266	422	1,090		
White hispanic	78	116	170	364		
Black	223	233	137	593		
Other	8	22	34	64		
Total	711	637	762	2,111		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship.
See Vol. II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-B-5.7

Mean Dietary Intake and Mother's Age

Mother's Age (yrs)	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total intake per day</u>						
Calories (kcal)						
20-29	31.1486	19.8473	1106.0498	13.7856	16.4317	1114.8558
< 18	4.6145	70.3873	1155.0854	7.5862	72.2749	1150.3841
18-19	-33.9194	-39.7706	1204.0125	-55.7868	-53.6924	1204.4103
30+	-26.9550	-94.5528	1164.1301	-49.2284	-91.6528	1171.9250
		MSE = 194658			MSE = 190871.4	
Protein (g)						
20-29	-0.6014	0.8681	40.3182	-1.2295	0.4193	40.8533
< 18	-4.7286	3.0100	45.1248	-5.0640	2.7865	44.4750
18-19	-0.9250	-1.4556	43.5757	-1.1359	-1.8170	42.8289
30+	-1.6475	-2.1068	42.1806	-1.8341	-2.0662	42.3961
		MSE = 366.131			MSE = 358.538	
Fat (g)						
20-29	0.7614	1.1578	41.2741	0.0805	0.8962	41.6787
< 18	5.9061	3.0118	43.4303	6.3720	3.0675	43.2770
18-19	-0.8495	-2.9356	46.9209*	-1.9700	-3.1754	46.6851
30+	-0.0981	-5.0315	42.1857	-0.9987	-4.5654	42.5052
		MSE = 436.037			MSE = 427.924	
Carbohydrate (g)						
20-29	4.9521	2.2628	146.2285	3.1977	2.8652	146.6421
< 18	-14.1595	6.3104	151.0195	-13.6168	7.5901	151.2027
18-19	-8.3271	-3.3768	155.4252	-10.7904	-5.9312	156.9585
30+	-7.5955	-10.2242	157.1335	-10.5601	-10.4651	157.8769
		MSE = 4262.758			MSE = 4190.181	
Calcium (mg)						
20-29	-31.3679	4.7072	699.6085	-28.8615	14.7507	695.4582
< 18	22.5469	11.0132	699.3420	56.3655	42.4934	686.4508
18-19	-112.2636	-62.5488	752.2921	-123.3770*	-53.4129	751.2181
30+	47.1006	-7.1341	712.6229	38.0511	-4.1059	714.5042
		MSE = 149199.9			MSE = 145407.2	
Iron (mg)						
20-29	2.9740**	0.1107	10.2648	2.4774**	-0.0235	10.4706
< 18	4.5848	-0.4394	9.7848	4.1353	-0.8241	9.8582
18-19	3.0756*	1.2075	10.0042	2.5991	1.0500	10.1569
30+	2.7750	0.3909	10.1857	2.1206	0.2372	10.5887
		MSE = 80.441			MSE = 80.207	
Magnesium (mg)						
20-29	-2.4071	0.3665	161.5228	-3.3640	0.7353	161.9834
< 18	-13.0790	-5.4327	169.1130	-11.2579	-1.0898	167.8368
18-19	-6.1085	-6.6046	167.4173	-7.4579	-7.7140	166.8805
30+	-6.3405	-8.3908	173.1107	-8.1545	-7.3014	173.0177
		MSE = 6185.065			MSE = 6075.587	
Phosphorus (mg)						
20-29	-29.1055	7.4191	793.0461	-30.6773	11.3191	793.6943
< 18	-74.4928	28.6211	851.2945	-46.0196	61.5721	832.0817
18-19	-92.3789	-64.5264	862.6828	-97.4034	-60.5876	853.9215
30+	-19.4983	-23.6944	838.8625	-29.7951	-18.4136	841.2795
		MSE = 139458.6			MSE = 136732.5	
Vitamin A (IU)						
20-29	326.2222	244.6237	3709.5942	220.5419	277.8595	3734.9060
< 18	962.2767	1406.8066	3096.9174	1002.3617	1535.1920	3021.3688
18-19	692.0068	369.6476	3419.3666	772.7006	560.9543	3291.8591
30+	577.8383	1779.5190*	3682.4981	336.3096	1736.8662*	3789.7458
		MSE = 24274780			MSE = 24390403	

(continued)

Table VI-B-5.7 (continued)

Mother's Age (yrs)	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total intake per day</u>						
Thiamin (mg)						
20-29	0.1102**	0.0114	0.9727	0.0741*	-0.0045	0.9909
< 18	0.0864	0.1540	0.9534	0.0649	0.1220	0.9492
18-19	0.1713	0.1228	0.9353	0.1340	0.0967	0.9436
30+	0.1052	-0.0164	0.9794	0.0570	-0.0294	1.0123
		MSE = 0.331			MSE = 0.33	
Riboflavin (mg)						
20-29	0.0693	0.0689	1.4938	0.0446	0.0723	1.4977
< 18	0.0551	0.1450	1.4819	0.1053	0.1742	1.4727
18-19	0.0252	-0.0162	1.5228	0.0165	0.0158	1.5063
30+	0.0318	0.0244	1.5339	-0.0353	0.0216	1.5742
		MSE = 0.921			MSE = 0.918	
Niacin (mg)						
20-29	1.4219**	0.1143	10.7215	0.9165	-0.0998	10.9734
< 18	0.1353	1.6585	11.1815	-0.2572	1.2124	11.2912
18-19	2.5405*	1.1323	10.4117	2.1790	0.9097	10.4710
30+	0.7553	-0.1099	10.6014	0.0942	-0.2865	10.9430
		MSE = 59.35			MSE = 58.928	
Vitamin B6 (mg)						
20-29	0.0869	0.0329	1.0300	0.0718	0.0197	1.0407
< 18	-0.0164	0.1446	0.9983	-0.0457	0.1384	1.0142
18-19	0.1748	0.0982	1.0065	0.1873	0.1050	0.9948
30+	0.0502	-0.0234	1.0031	0.0428	-0.0362	1.0010
		MSE = 0.544			MSE = 0.545	
Vitamin B12 (mcg)						
20-29	0.2940	0.3695	3.2625	0.1895	0.3998	3.3025
< 18	-0.4652	-0.4491	3.7620	-0.1763	-0.1327	3.4247
18-19	0.2676	-0.3592	3.6959	0.2885	-0.1829	3.5279
30+	0.5841	2.6303**	2.5660	0.2081	2.6821**	2.7103
		MSE = 29.812			MSE = 29.894	
Vitamin C (mg)						
20-29	10.6977*	-3.8009	92.4481	10.6215*	-4.8945	92.6188
< 18	30.3626	-4.9296	71.3364	25.1495	-9.9378	74.0555
18-19	21.3880	19.6000	86.0581	22.3857	15.3151	88.9969
30+	11.8036	-4.9896	96.6861	16.6905	-8.2219	95.5836
		MSE = 7075.811			MSE = 6976.976	
Protein (g)						
20-29	-1.6792*	0.1813	41.2229	-1.7064*	-0.1491	41.4530
< 18	-4.8883	0.5744	44.3327	-5.3264	0.2863	43.8457
18-19	0.2487	-0.0794	41.0905	0.7939	0.0403	40.3308
30+	-0.7147	1.1650	41.0755	-0.1311	1.1043	41.0217
		MSE = 133.116			MSE = 130.192	
Fat (g)						
20-29	-0.4964	0.3564	42.3298	-0.4755	0.2334	42.3780
< 18	5.7198	0.1697	42.5060	6.0660*	0.1524	42.5433
18-19	0.5201	-1.3297	44.0210	0.2801	-1.0098	43.7724
30+	0.9903	-1.2137	40.8962	0.9869	-0.8687	40.9027
		MSE = 118.734			MSE = 117.473	
Carbohydrate (g)						
20-29	0.9600	-0.2808	149.5791	1.4305	0.7589	148.8646
< 18	-14.7509	-2.7106	148.0857	-14.5893	-1.6746	148.8710
18-19	-3.9799	1.7203	146.2209	-3.6392	0.9515	147.7013
30+	-4.1409	1.8939	153.0405	-4.2497	1.2836	152.7838
		MSE = 1065.944			MSE = 1054.294	

(continued)

Table VI-B-5.7 (continued)

Mother's Age (yrs)	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total intake per day</u>						
Calcium (mg)						
20-29	-47.2335*	-5.4021	712.9250	-35.8438	6.4282	704.2397
< 18	20.1965	-24.8386	687.6822	52.5232	5.8868	677.2376
18-19	-94.9866	-42.2916	715.7112	-95.1215*	-26.2181	714.6411
30+	60.8301	41.0265	696.3562	62.9849	42.3155	694.3807
		MSE = 98745.16			MSE = 96488.97	
Iron (mg)						
20-29	2.7193**	-0.0516	10.4785	2.3634**	-0.1593	10.6140
< 18	4.5470*	-1.0149	9.5976	4.0726	-1.4215	9.7078
18-19	3.3530**	1.5327	9.4169	3.0603*	1.4939	9.5599
30+	2.9954*	1.1640	9.9245	2.5276	0.9948	10.2603
		MSE = 67.459			MSE = 67.195	
Magnesium (mg)						
20-29	-6.5464*	-2.2710	164.9971	-5.1899	-1.4411	164.2798
< 18	-13.6922	-14.7864	166.0709	-12.2627	-10.6627	165.4275
18-19	-1.6010	-1.3195	157.8734	-0.0689	-0.6024	157.3154
30+	-2.7584	4.1743	168.8667	-1.6341	4.8382	167.7553
		MSE = 2748.777			MSE = 2728.377	
Phosphorus (mg)						
20-29	-49.1489**	-5.3522	809.8692	-39.5288**	0.7686	804.8269
< 18	-77.4622	-16.6716	836.5642	-50.8906	15.1655	820.4020
18-19	-70.5524	-38.9349	816.4691	-61.5835	-26.1125	807.5524
30+	-2.1534	37.1484	818.3122	1.8137	40.4353	815.7687
		MSE = 58885.72			MSE = 57068.82	
Vitamin A (IU)						
20-29	240.1874	189.8038	3781.8062	181.9657	231.8790	3783.4230
< 18	949.5310	1212.3911	3033.6891	981.1334	1332.9458	2970.4673
18-19	785.6951	479.4972	3220.9976	928.8083	711.2013	3089.7764
30+	652.2901	2040.6817**	3594.2876	474.0651	1993.3375*	3678.5665
		MSE = 22800594			MSE = 22906885	
Thiamin (mg)						
20-29	0.0858**	-0.0041	0.9931	0.0633*	-0.0174	1.0046
< 18	0.0828	0.0989	0.9355	0.0589	0.0650	0.9349
18-19	0.1978**	0.1540*	0.8791	0.1780*	0.1390	0.8867
30+	0.1263	0.0576	0.9544	0.0957	0.0428	0.9810
		MSE = 0.211			MSE = 0.211	
Riboflavin (mg)						
20-29	0.0335	0.0461	1.5239	0.0286	0.0532	1.5178
< 18	0.0498	0.0642	1.4556	0.0965	0.0903	1.4516
18-19	0.0641	0.0295	1.4403	0.0812	0.0781	1.4225
30+	0.0627	0.1329	1.4973	0.0219	0.1280	1.5281
		MSE = 0.665			MSE = 0.661	
Niacin (mg)						
20-29	1.1269**	-0.0736	10.9691	0.7853*	-0.2562	11.1384
< 18	0.0916	0.9920	10.9647	-0.3294	0.5245	11.1180
18-19	2.8617**	1.5089	9.7316	2.7100**	1.4207	9.7836
30+	1.0105	0.7855	10.2990	0.5627	0.5858	10.5649
		MSE = 41.914			MSE = 41.658	
Vitamin B6 (mg)						
20-29	0.0598	0.0157	1.0527	0.0596	0.0051	1.0561
< 18	-0.0204	0.0834	0.9784	-0.0525	0.0743	0.9981
18-19	0.2043*	0.1328	0.9440	0.2367*	0.1526	0.9308
30+	0.0736	0.0589	0.9754	0.0864	0.0450	0.9658
		MSE = 0.397			MSE = 0.395	

(continued)

Table VI-B-5.7 (continued)

Mother's Age (yrs)	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total intake per day</u>						
Vitamin B12 (mcg)						
20-29	0.2059	0.3134	3.3364	0.1498	0.3525	3.3523
< 18	-0.4782	-0.6480	3.6973	-0.1981	-0.3405	3.3724
18-19	0.3635	-0.2468	3.4930	0.4489	-0.0285	3.3203
30+	0.6603	2.8975**	2.4757	0.3497	2.9456**	2.5961
		MSE = 28.27			MSE = 28.33	
Vitamin C (mg)						
20-29	9.0205	-4.8695	93.8558	9.8550*	-5.8081	93.5828
< 18	30.1141	-8.7195	70.1038	24.7277	-13.9563	73.0442
18-19	23.2143	21.7414	82.1911	25.4875*	18.3004	84.9817
30+	13.2550	0.1016	94.9665	19.4275	-3.1260	93.3746
		MSE = 6514.567			MSE = 6390.022	
Calories (kcal)						
20-29	45.6421**	22.3259	356.5159	44.2977**	18.7975	360.2391
< 18	129.6640*	-30.7402	365.8902	132.8843*	-33.2895	346.8589
18-19	-17.8789	-23.5138	418.6942*	-13.4786	-20.2096	409.0918
30+	58.3720	-32.9609	392.1800	63.1108	-35.5746	391.6777
		MSE = 53480.31			MSE = 52179.86	
Protein (g)						
20-29	-0.7485	0.6677	18.1599	-0.6305	0.6580	18.2596
< 18	0.4815	-0.6088	20.1272	0.9327	-0.3824	19.0544
18-19	-3.6994*	-2.4554	21.4691*	-3.3286	-2.0887	20.7534
30+	0.9480	-0.9474	19.1869	1.2906	-0.8608	18.9988
		MSE = 134.147			MSE = 128.437	
Fat (g)						
20-29	1.4763*	1.3946	16.9974	1.3600	1.2067	17.2073
< 18	6.5107*	-1.4463	18.2950	6.9285*	-1.4047	17.3798
18-19	-3.0466	-3.2454	21.8230*	-2.8438	-2.8763	21.1812*
30+	1.1587	-2.8989	18.8455*	1.0701	-2.9409	18.8924
		MSE = 135.196			MSE = 131.802	
Carbohydrate (g)						
20-29	6.8315**	1.4856	33.1406	6.8392**	1.1392	33.4094
< 18	12.2234	-4.0531	31.5992	11.9012	-4.9512	29.7816
18-19	4.3052	3.1694	34.8071	4.6831	2.5425	34.5868
30+	9.3550*	-0.7336	36.4500	10.6880*	-1.3677	36.3286
		MSE = 854.105			MSE = 844.41	
Calcium (mg)						
20-29	-24.6851	15.5538	513.0225	-19.2577	22.3552	510.3649
< 18	14.7953	-37.7720	543.3745	40.3188	-19.3719	522.6791
18-19	-118.1433*	-56.6864	578.2405	-117.4108*	-44.4055	568.7698
30+	12.7865	-17.9951	525.9911	16.4805	-14.5511	523.4537
		MSE = 127428.6			MSE = 124697.7	
Iron (mg)						
20-29	3.6714**	0.1893	3.8274	3.3568**	0.0265	3.9892
< 18	5.8502*	-0.9993	2.8286	5.2815*	-1.6764	2.8469
18-19	2.7981	1.3930	3.6825	2.4232	1.2841	3.9326
30+	4.4411**	1.4317	3.3930	4.1972**	1.1798	3.5601
		MSE = 87.795			MSE = 87.404	
Magnesium (mg)						
20-29	-0.8728	2.0438	75.3944	-0.5517	2.0056	75.8948
< 18	8.7228	-7.1395	76.0351	9.9625	-7.0140	71.1767
18-19	-6.8272	-5.0021	84.3540	-6.2831	-4.9684	82.3163
30+	6.7365	-3.7713	81.5121	7.9764	-3.7433	81.0166
		MSE = 2685.662			MSE = 2611.418	

(continued)

Table VI-B-5.7 (continued)

Mother's Age (yrs)	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Total intake per day						
Phosphorus (mg)						
20-29	-23.6154	15.4731	457.3017	-18.9247	18.1418	457.3892
< 18	-10.0792	-18.1607	494.6396	6.8272	-7.3289	470.5303
18-19	-93.1717*	-50.2090	523.0630	-87.1347	-40.6526	509.4247
30+	8.8146	-24.0477	481.4586	15.7208	-20.7468	476.9955
	MSE = 89429.14			MSE = 86438.29		
Vitamin A (IU)						
20-29	475.7794**	71.7333	997.6736	447.7209**	54.8453	1009.4152
< 18	701.7392	66.2944	901.8329	646.9150	-53.9081	917.6591
18-19	402.2619	231.8220	1092.7595	355.8116	222.6772	1138.1339
30+	728.8125**	215.7791	856.0153	677.3613**	164.4559	889.2991
	MSE = 2233279			MSE = 2228168		
Thiamin (mg)						
20-29	0.1519**	0.0156	0.3517	0.1415**	0.0091	0.3574
< 18	0.1874	-0.0598	0.3225	0.1601	-0.1082	0.3226
18-19	0.1435	0.1026	0.3511	0.1255	0.0919	0.3666
30+	0.2294**	0.0669	0.3197	0.2225**	0.0513	0.3286
	MSE = 0.245			MSE = 0.244		
Riboflavin (mg)						
20-29	0.1214**	0.0345	0.8107	0.1176**	0.0352	0.8123
< 18	0.1677	-0.0467	0.8285	0.1739	-0.0720	0.8145
18-19	-0.0213	0.0057	0.9126	-0.0374	0.0168	0.9172
30+	0.2339*	0.0506	0.7597	0.2194*	0.0390	0.7677
	MSE = 0.495			MSE = 0.49		
Niacin (mg)						
20-29	2.0326**	0.0589	2.3743	1.8819**	0.0086	2.4270
< 18	2.1699	-0.2064	1.6613	1.8382	-0.7737	1.7809
18-19	1.6752	1.2036	2.4428	1.3575	1.0680	2.7392
30+	2.8561**	1.1258	1.6638	2.6045**	0.9251	1.7973
	MSE = 38.283			MSE = 38.173		
Vitamin B6 (mg)						
20-29	0.1632**	0.0269	0.3179	0.1550**	0.0174	0.3246
< 18	0.1473	0.0182	0.2946	0.1234	-0.0303	0.2877
18-19	0.1208	0.0786	0.3721	0.1119	0.0738	0.3823
30+	0.2501**	0.0847	0.2628	0.2388*	0.0677	0.2691
	MSE = 0.352			MSE = 0.351		
Vitamin B12 (mcg)						
20-29	0.3685**	0.1248	1.8855	0.3535**	0.1107	1.8962
< 18	0.2464	0.0481	2.0707	0.2588	-0.0401	2.0289
18-19	0.0385	0.0778	2.2318	0.0122	0.1038	2.2384
30+	0.6012	0.1164	1.7290	0.5556	0.0662	1.7611
	MSE = 4.276			MSE = 4.249		
Vitamin C (mg)						
20-29	13.0343**	0.7577	38.7126	14.0834**	0.3288	38.2885
< 18	33.9977	-9.6581	25.7535	31.0293	-14.9228	27.0490
18-19	29.6973**	16.6218	32.1222	31.1551**	14.0352	33.6717
30+	16.5127	-6.4553	44.1109	20.5619	-8.6335	44.0862
	MSE = 4709.512			MSE = 4667.489		
Mother's Age (yrs)						
n	Current WIC	Past WIC	Control	Total		
20-29	475	465	580	1,520		
< 18	51	21	18	90		
18-19	121	92	63	276		
30+	64	59	102	225		
Total	711	637	763	2,111		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship.
See Vol. II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-B-5.8

Mean Dietary Intake and Child's Quetelet Index

Child's Quetelet Index	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total intake per day</u>						
Calories (kcal)						
.135-.175	37.9581	5.2001	1109.5040	12.2164	-9.6007	1119.6294
< .135	-40.3479	36.1259	1045.7872	-90.4398	27.3678	1046.2039
> .175	-0.3471	27.2230	1157.6298	-7.0425	33.1837	1170.2269
Missing	-26.7863	-155.5629	1248.3438	-13.8852	-159.5455	1225.2478
		MSE = 194463.8			MSE = 189968.5	
Protein (g)						
.135-.175	0.3520	0.7688	39.4652	-0.4921	0.0261	39.9127
< .135	0.6460	4.9046	36.3144	-0.5955	4.5035	35.2867
> .175	-2.2166	0.2134	44.2137**	-2.6069	0.1680	44.7296**
Missing	-8.5479	-11.2753*	50.4422*	-8.9909	-13.3721*	52.4592*
		MSE = 363.962			MSE = 354.994	
Fat (g)						
.135-.175	1.5692	-0.2251	41.2784	0.3612	-1.0901	41.8178
< .135	-3.2677	2.4302	41.3164	-5.6862	2.3186	41.3053
> .175	1.4721	2.6525	42.9341	1.1412	2.8887	43.3879
Missing	-2.0898	-9.4084	47.7292	-1.6546	-11.3377	48.4863
		MSE = 437.46			MSE = 426.275	
Carbohydrate (g)						
.135-.175	4.1400	0.7926	147.7898	1.8350	0.1823	147.9428
< .135	-4.1375	-2.0370	134.4802	-8.2306	-2.9986	135.3697
> .175	-4.5480	0.2038	152.2321	-4.7111	1.5181	153.5186
Missing	0.1524	8.2781	159.3505	-0.6749	10.0718	160.2626
		MSE = 4260.075			MSE = 4186.871	
Calcium (mg)						
.135-.175	1.1493	0.4723	673.8449	-5.6815	11.5734	671.9437
< .135	70.8277	17.2854	645.0791	63.5380	37.3916	641.7536
> .175	-81.4522*	5.6595	767.0745**	-68.7402	20.6806	758.4439**
Missing	-297.9280*	-184.1172	897.7137*	-296.2574*	-230.0692*	923.1715
		MSE = 148163.6			MSE = 144558	
Iron (mg)						
.135-.175	2.5636**	0.3473	10.5463	1.9881**	0.1772	10.8444
< .135	3.0756	0.6393	8.7630	2.0351	0.5466	9.3118
> .175	3.8406**	-0.2715	9.9160	3.4950**	-0.4659	10.0070
Missing	3.3160	2.1114	9.8508	3.0836	1.9269	9.1982
		MSE = 80.236			MSE = 80.022	
Magnesium (mg)						
.135-.175	3.5095	0.6494	158.0034	1.5282	1.0324	158.4324
< .135	-19.5835	-19.5950	163.7893	-22.9998	-18.3164	161.9511
> .175	-13.8215	-1.0073	174.6825**	-12.9931	0.5341	175.0316*
Missing	-2.5446	-0.3877	168.9786	2.2147	-1.7143	164.8758
		MSE = 6151.958			MSE = 6035.999	
Phosphorus (mg)						
.135-.175	-2.4525	5.6320	771.0680	-11.9161	8.2423	771.9381
< .135	-28.0736	17.6055	764.0179	-29.9320	35.6611	749.2398
> .175	-87.1878*	-2.4141	874.9874***	-79.6102*	9.7337	871.6142**
Missing	-156.1794	-168.1741	946.1412	-165.8804	-226.4747*	993.1477
		MSE = 138340.3			MSE = 134584.6	
Vitamin A (IU)						
.135-.175	594.7145	449.8841	3593.3255	496.3633	528.6681	3558.9127
< .135	548.9845	3809.4103**	3261.4481	932.8911	4298.6862**	3000.0746
> .175	-55.9898	-286.8294	3920.6622	-88.8829	-262.7006	3885.4019
Missing	681.0564	-2457.6347	3708.5777	-709.8965	-3675.8979*	5764.6589
		MSE = 24181497			MSE = 24256666	

(continued)

Table VI-B-5.8 (continued)

Child's Quetelet Index	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total intake per day</u>						
Thiamin (mg)						
.135-.175	0.1142**	0.0600	0.9623	0.0714	0.0376	0.9857
< .135	0.2902*	-0.0125	0.8572	0.2171	-0.0226	0.8725
> .175	0.1088*	-0.0257	0.9993	0.0807	-0.0398	1.0231
Missing	-0.2185	-0.0392	1.1060	-0.2140	-0.0338	0.9828
Riboflavin (mg)						
.135-.175	0.0956	0.0922	1.4674	0.0608	0.0974	1.4775
< .135	0.3825	0.2323	1.3042	0.3504	0.2957	1.2940
> .175	-0.0207	-0.0431	1.5898	-0.0230	-0.0327	1.5896
Missing	-0.5363	-0.2514	1.7890	-0.6106*	-0.3883	1.8317
		MSE = 0.919			MSE = 0.916	
Niacin (mg)						
.135-.175	1.3702**	0.6760	10.7178	0.8181	0.3583	10.9919
< .135	4.3621**	0.7823	8.7000	3.4552*	0.7358	8.7000
> .175	1.2723	-0.6073	11.0127	0.8391	-0.8204	11.4283
Missing	-1.4861	-0.1835	11.6807	-1.6334	-0.1529	10.4931
		MSE = 59.269			MSE = 58.777	
Vitamin B6 (mg)						
.135-.175	0.0647	0.0761	1.0125	0.0483	0.0604	1.0269
< .135	0.3547*	-0.1270	0.8849	0.3308*	-0.1201	0.8613
> .175	0.1142	0.0124	1.0608	0.1048	0.0008	1.0729
Missing	-0.1905	0.0295	1.1975	-0.1981	0.0115	1.1336
		MSE = 0.542			MSE = 0.543	
Vitamin B12 (mcg)						
.135-.175	0.3993	0.2410	3.1743	0.2703	0.2823	3.1487
< .135	1.5400	5.9083**	2.1650	1.9985	6.4045**	1.8858
> .175	0.0582	0.0083	3.4597	0.0210	0.0823	3.4302
Missing	-0.9689	-3.8638*	4.4795	-2.4747	-5.2683**	6.7196
		MSE = 29.58			MSE = 29.625	
Vitamin C (mg)						
.135-.175	12.3168*	1.4180	92.1180	13.7002*	0.5299	92.4447
< .135	2.6766	7.9916	80.5102	-0.6414	1.4572	83.5891
> .175	12.8272	-13.3862	94.6827	12.6976	-16.1310	95.6423
Missing	20.6332	19.6088	86.5821	28.2435	34.4137	67.4065
		MSE = 7076.384			MSE = 6977.04	
Protein (g)						
.135-.175	-0.9588	0.5892	40.2487	-0.9131	0.3570	40.3458
< .135	2.0393	3.6572	39.2981	2.5216	3.5603	38.2504
> .175	-2.2046*	-0.7266	43.3354**	-2.3641*	-0.9757	43.4188**
Missing	-7.6229*	-5.9036	46.4314	-8.5123*	-7.8733*	49.2521*
		MSE = 132.149			MSE = 129.395	
Fat (g)						
.135-.175	0.0343	-0.4354	42.1959	-0.1312	-0.7032	42.3242
< .135	-1.6362	0.9694	44.8104	-2.0412	1.2156	44.7710
> .175	1.4862	1.5516	41.9056	1.4251	1.5513	41.8550
Missing	-1.0067	-3.1180	43.0325	-1.0949	-4.9075	44.7360
		MSE = 119.543			MSE = 117.76	
Carbohydrate (g)						
Missing	-1.0067	-3.1180	43.0325	-1.0949	-4.9075	44.7360
.135-.175	-0.7238	0.1262	150.6972	0.2655	1.4158	149.5570
< .135	1.0326	-6.6661	145.5522	3.3886	-6.5146	146.4173
> .175	-4.5035	-3.2845	148.9728	-3.8063	-2.7452	148.6323
Missing	3.5847	28.2116**	144.4673	1.1090	30.5694**	148.3075
		MSE = 1067.637			MSE = 1051.79	

(continued)

Table VI-B-5.8 (continued)

Child's Quetelet Index	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total intake per day</u>						
Calcium (mg)						
.135-.175	-18.0567	-2.1589	685.3254	-11.8597	16.4288	678.2980
< .135	91.2428	-0.9935	688.7989	109.2764	23.5508	685.2415
> .175	-81.2766**	-8.1147	754.2045	-65.1786*	3.8985	739.2094
Missing	-284.3747**	-105.4058	838.9444	-289.2352**	-149.3818	876.1111
	MSE = 98425.17			MSE = 96017.12		
Iron (mg)						
.135-.175	2.2526**	0.3047	10.7322	1.8864**	0.2571	10.9490
< .135	3.4062	0.3433	9.4710	2.7877	0.3189	10.0273
> .175	3.8435**	-0.4946	9.7075	3.5536**	-0.7420	9.6905
Missing	3.5355	3.3861	8.8991	3.1991	3.2545	8.4238
	MSE = 67.211			MSE = 66.9		
Magnesium (mg)						
.135-.175	-1.5150	-0.0389	161.0069	-0.0894	2.3037	160.0961
< .135	-14.2426	-24.3770*	175.2270	-11.0245	-21.9402*	173.3371
> .175	-13.7756**	-4.6108	171.3156	-12.0606*	-3.8598	169.9956
Missing	1.0011	20.2042	153.6038	4.0533	19.4113	152.5544
	MSE = 2745.907			MSE = 2706.644		
Phosphorus (mg)						
.135-.175	-26.7857	2.2985	785.6134	-19.7507	14.3995	779.9959
< .135	-2.2084	-5.5532	819.4094	28.0690	18.1096	804.3869
> .175	-86.9653**	-19.8656	858.6815	-75.0937**	-11.5477	847.2228
Missing	-139.0079	-68.4496	871.6826	-156.9756*	-124.1548	933.4703
	MSE = 58452.82			MSE = 56479.28		
Vitamin A (IU)						
.135-.175	489.9363	435.5299	3655.9577	461.7669	555.8568	3594.4947
< .135	660.3593	3709.6897**	3499.9619	1189.0133	4221.1815**	3243.5949
> .175	-55.0318	-361.9747	3850.4498	-68.9389	-356.6756	3777.6937
Missing	754.9963	-2028.2247	3387.9618	-670.5742	-3224.0709*	5501.1336
	MSE = 22710594			MSE = 22744129		
Thiamin (mg)						
Missing	754.9963	-2028.2247	3387.9618	-670.5742	-3224.0709*	5501.1336
.135-.175	0.0844**	0.0559	0.9801	0.0617*	0.0452	0.9956
< .135	0.3218**	-0.0408	0.9249	0.2884**	-0.0442	0.9404
> .175	0.1091*	-0.0471	0.9794	0.0862*	-0.0660	0.9931
Missing	-0.1975	0.0827	1.0150	-0.2030	0.0921	0.9094
	MSE = 0.211			MSE = 0.21		
Riboflavin (mg)						
Missing	-0.1975	0.0827	1.0150	-0.2030	0.0921	0.9094
.135-.175	0.0521	0.0862	1.4934	0.0466	0.1086	1.4922
< .135	0.4287*	0.1909	1.4033	0.4557**	0.2639	1.3941
> .175	-0.0203	-0.0743	1.5607	-0.0148	-0.0714	1.5454
Missing	-0.5056	-0.0732	1.6559	-0.5944*	-0.2026	1.7234
	MSE = 0.664			MSE = 0.659		
Niacin (mg)						
.135-.175	1.0098*	0.6266	10.9332	0.7016	0.4498	11.1117
< .135	4.7451**	0.4394	9.5202	4.3176**	0.4748	9.5200
> .175	1.2756*	-0.8657	10.7713	0.9062	-1.1368	11.0657
Missing	-1.2318	1.2932	10.5781	-1.5010	1.3685	9.6058
	MSE = 41.766			MSE = 41.523		
Vitamin B6 (mg)						
.135-.175	0.0317	0.0715	1.0322	0.0375	0.0689	1.0380
< .135	0.3898**	-0.1584	0.9600	0.4109**	-0.1443	0.9375
> .175	0.1145	-0.0112	1.0387	0.1111	-0.0286	1.0393
Missing	-0.1673	0.1646	1.0966	-0.1858	0.1528	1.0512
	MSE = 0.396			MSE = 0.394		

(continued)

Table VI-B-5.8 (continued)

Child's Quetelet Index	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Total intake per day						
Vitamin B12 (mcg)						
.135-.175	0.2920	0.2263	3.2384	0.2351	0.3100	3.1849
< .135	1.6540	5.8063**	2.4091	2.2595*	6.3255**	2.1340
> .175	0.0592	-0.0686	3.3878	0.0413	-0.0134	3.3204
Missing	-0.8932	-3.4244*	4.1514	-2.4347	-4.8078**	6.4510
		MSE = 28.042			MSE = 28.056	
Vitamin C (mg)						
.135-.175	10.2717	1.1378	93.3404	13.0172*	1.0666	93.1472
< .135	4.8504	6.0453	85.1656	4.4147	-0.0728	88.3965
> .175	12.8459	-14.8529	93.3123	13.0914	-17.9862*	93.5160
Missing	22.0763	27.9901	80.3242	29.0197	43.3332	62.2042
		MSE = 6515.009			MSE = 6386.389	
Calories (kcal)						
.135-.175	49.8518**	12.4470	356.4706	45.6363**	9.5093	362.4156
< .135	53.8554	36.0095	338.5828	57.0758	46.8320	330.4434
> .175	39.2022	5.7487	392.0110	40.9881	3.6271	386.2322
Missing	12.9803	-4.2139	385.6116	7.6623	-45.7262	394.3881
		MSE = 53706.26			MSE = 52410.86	
Protein (g)						
.135-.175	-0.2692	0.3470	17.6887	-0.3545	0.3281	17.8732
< .135	0.9928	1.3750	16.9342	1.4998	2.2068	16.1114
> .175	-1.3472	-0.0390	20.6053**	-1.1005	0.1365	20.2758*
Missing	-5.8528	-2.5537	21.8199	-5.8616	-4.7871	22.4705
		MSE = 133.595			MSE = 127.987	
Fat (g)						
.135-.175	1.3704	0.1483	17.2697	1.0263	-0.1029	17.5955
< .135	1.6553	0.4581	17.7833	1.5182	1.2456	17.0148
> .175	1.4765	1.4124	18.4678	1.5252	1.3623	18.3152
Missing	0.3455	-0.0106	17.9825	0.1874	-2.6268	18.9805
		MSE = 136.412			MSE = 132.885	
Carbohydrate (g)						
.135-.175	8.0123**	2.2856	32.7889	8.0741**	2.1750	33.2676
< .135	9.1760	6.8393	27.0147	9.8917	6.8217	27.2603
> .175	4.8187	-2.1932	36.7328	4.9587	-2.6902	36.1349
Missing	2.5896	-0.3379	36.4544	3.0288	-1.2634	33.2647
		MSE = 854.38			MSE = 844.438	
Calcium (mg)						
.135-.175	-2.7470	5.8466	491.1300	-3.5453	14.5704	490.7140
< .135	75.1783	27.3988	463.0779	83.6873	50.5483	453.1754
> .175	-70.3682*	7.0510	581.2059**	-59.5964	16.0474	570.6879**
Missing	-283.0001*	-102.7305	670.5558	-288.1721*	-154.4129	690.9640
		MSE = 126489.9			MSE = 124028.4	
Iron (mg)						
.135-.175	3.2690**	0.5078	4.0447	2.9200**	0.3935	4.3405
< .135	4.2933*	1.2603	2.8495	3.7195	1.1578	3.4549
> .175	4.4037**	-0.1717	3.3925	4.1648**	-0.4336	3.2956
Missing	3.4349	2.1144	2.6172	3.4185	2.0989	1.3128
		MSE = 87.778			MSE = 87.341	
Magnesium (mg)						
.135-.175	2.5592	1.5535	73.9773	2.1835	1.7147	74.8061
< .135	9.3439	6.3839	65.5538	10.6569	9.0786	63.2199
> .175	-4.7739	-2.2619	84.7196*	-4.0912	-1.8727	83.7648*
Missing	-19.2098	-5.9316	86.5780	-14.7324	-10.5195	80.4326
		MSE = 2681.575			MSE = 2604.884	

(continued)

Table VI-B-5.8 (continued)

Child's Quetelet Index	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total intake per day</u>						
Phosphorus (mg)						
.135-.175	-8.2356	6.4096	442.4569	-8.7740	10.0529	444.5381
< .135	49.5832	30.0241	414.1739	63.1754	52.2324	398.0617
> .175	-52.5378	5.0947	518.4221**	-44.2615	11.2815	509.4335**
Missing	-224.8218*	-81.1261	577.8320	-224.1369*	-132.7349	589.9786
	MSE = 88789.98			MSE = 85935.5		
Vitamin A (IU)						
.135-.175	453.1651**	149.0259	973.6183	412.8703**	129.8874	1012.5103
< .135	1308.7210**	179.5565	664.0898	1246.7282**	159.2655	715.5821
> .175	568.9763**	59.6628	1053.4922	536.5230**	25.5178	1059.3323
Missing	-609.3201	-28.5682	1279.3968	-625.9846	-5.4146	980.4227
	MSE = 2229141			MSE = 2224991		
Thiamin (mg)						
.135-.175	0.1495**	0.0399	0.3492	0.1378**	0.0351	0.3635
< .135	0.3669**	0.0705	0.2377	0.3415**	0.0560	0.2623
> .175	0.1689**	-0.0003	0.3608	0.1566**	-0.0137	0.3622
Missing	-0.1604	0.0476	0.4076	-0.1336	0.0888	0.2487
	MSE = 0.245			MSE = 0.244		
Riboflavin (mg)						
.135-.175	0.1277**	0.0443	0.7843	0.1136*	0.0456	0.7979
< .135	0.4862**	0.0608	0.6647	0.4689**	0.0776	0.6724
> .175	0.1056	0.0314	0.8829	0.1050	0.0297	0.8743
Missing	-0.5577*	-0.0778	1.0571	-0.5514*	-0.1173	0.9592
	MSE = 0.493			MSE = 0.489		
Niacin (mg)						
Missing	-0.5577*	-0.0778	1.0571	-0.5514*	-0.1173	0.9592
.135-.175	1.8464**	0.3822	2.4869	1.6753**	0.3314	2.6492
< .135	5.0047**	0.5952	1.0222	4.5567**	0.4592	1.3726
> .175	2.2380**	0.1631	2.0860	2.0391**	0.0075	2.1758
Missing	-1.7229	0.7495	2.5338	-1.2038	1.5196	0.1762
	MSE = 38.232			MSE = 38.104		
Vitamin B6 (mg)						
.135-.175	0.1493**	0.0611	0.3131	0.1382**	0.0507	0.3298
< .135	0.4936**	0.0358	0.1925	0.4799**	0.0340	0.2005
> .175	0.1840**	0.0180	0.3382	0.1714**	0.0043	0.3404
Missing	-0.2764	0.0284	0.3916	-0.2557	0.0354	0.2432
	MSE = 0.352			MSE = 0.35		
Vitamin B12 (mcg)						
Missing	-0.2764	0.0284	0.3916	-0.2557	0.0354	0.2432
.135-.175	0.3692**	0.1527	1.8294	0.3295*	0.1288	1.8781
< .135	1.6242**	0.1992	1.4680	1.5829**	0.2336	1.4633
> .175	0.3173	0.1816	2.0740	0.2970	0.1607	2.0697
Missing	-1.7158**	-0.3244	2.6224	-1.7108**	-0.4247	2.2896
	MSE = 4.261			MSE = 4.236		
Vitamin C (mg)						
.135-.175	15.7811**	1.8870	39.4287	17.8008**	1.6856	39.3642
< .135	16.0340	10.6713	29.6163	15.5268	5.6729	32.3997
> .175	17.5879**	-3.3567	38.9311	18.0566**	-5.1719	38.9458
Missing	7.6594	5.6467	37.6927	11.6525	16.4333	22.9795
	MSE = 4720.596			MSE = 4681.823		
Child's Quetelet Index						
n	Current WIC	Past WIC	Control	Total		
.135-.175	415	388	468	1,271		
< .135	37	58	52	147		
> .175	239	163	224	626		
Missing	20	28	19	67		
Total	711	637	763	2,111		

(continued)

Table VI-B-5.8 (continued)

Child's Quetelet Index	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls

*p < 0.05.
 **p < 0.01.
 ***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship.
 See Vol. II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-B-5.9

Mean Dietary Intake and Percentile Height of Child

Percentile Height of Child	Age and sex adjusted ^a WIC status			Fully adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total intake per day</u>						
Calories (kcal)						
0-10	75.6855	14.4166	1075.2168	68.3741	5.3104	1076.2190
11-89	14.4230	17.3308	1127.5149	-12.1482	9.5195	1140.0021
90-100	-5.7295	-58.5685	1146.9784	-9.1600	-68.8370	1147.7625
MSE =	194279.7			MSE =	190560.1	
Protein (g)						
0-10	-1.3418	-0.0554	41.1536	-0.8369	-0.1526	40.8018
11-89	-0.5082	0.8930	40.8357	-1.5222	0.2311	41.4570
90-100	-1.1645	-1.1998	41.7380	-1.7270	-1.6444	41.6773
MSE =	366.9528			MSE =	358.8354	
Fat						
0-10	5.0446	1.3681	39.7709	4.8832	1.0293	39.7081
11-89	0.3912	0.7162	42.2015	-0.8723	0.1297	42.8473
90-100	1.4866	-1.8242	42.5842	1.4220	-2.1545	42.6352
MSE =	438.2245			MSE =	427.5873	
Carbohydrate (g)						
0-10	5.4932	6.9331	140.1693	4.0763	5.7204	140.7652
11-89	1.2228	1.0001	149.3399	-1.2009	1.4467	150.1239
90-100	-4.2434	-8.9312	151.8904	-3.7362	-10.1417	151.7318
MSE =	4262.579			MSE =	4190.721	
Calcium (mg)						
0-10	27.6747	60.0439	717.8634	55.4267	71.2139	694.9367
11-89	-45.1048	-13.2446	701.9202	-50.1280*	-0.2481	700.8445
90-100	-27.5487	-22.4039	720.3844	-16.2119	-15.4430	718.2295
MSE =	148740.2			MSE =	144927.8	
Iron						
0-10	4.8451**	-0.1041	10.5193	4.2603**	-0.4103	10.7979
11-89	2.6465**	0.3804	10.1087	2.2001**	0.2203	10.3170
90-100	2.7014	-0.1159	10.7337	2.5532	0.0206	10.7007
MSE =	80.07305			MSE =	80.08794	

(continued)

Table VI-B-5.9 (continued)

Percentile Height of Child	Age and sex adjusted ^a WIC status			Fully adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Magnesium (mg)						
0-10	-4.8035	-2.8554	166.7019	-1.0680	-2.2750	164.2350
11-89	-3.6498	-1.4909	163.1836	-5.8157	-0.6585	163.9315
90-100	-3.8240	-2.5458	164.2657	-3.2401	-2.0738	163.0759
MSE =	6183.905			MSE =	6064.332	
Phosphorus (mg)						
0-10	-13.8455	33.0707	811.4036	11.2567	37.3132	792.9088
11-89	-39.6404	-5.3871	802.7419	-49.4524*	0.2851	805.4354
90-100	-48.8477	-28.1839	827.7010	-44.0589	-25.2254	827.1623
MSE =	139457.1			MSE =	135643.8	
Vitamin A (IU)						
0-10	969.7323	826.9992	3470.6526	856.6650	766.4482	3511.8220
11-89	450.1083	506.2879	3578.4694	374.0319	607.2833*	3576.5872
90-100	-686.5556	-711.2963	4512.5121	-719.1397	-676.7262	4519.0035
MSE =	24262235			MSE =	24356860	
Thiamin (mg)						
0-10	0.2331**	0.0674	0.9072	0.2024*	0.0445	0.9243
11-89	0.1001**	0.0246	0.9754	0.0610	0.0043	0.9955
90-100	0.0472	0.0055	1.0023	0.0134	-0.0052	1.0111
MSE =	0.3302985			MSE =	0.3287874	
Riboflavin (mg)						
0-10	0.2161	0.2021	1.4147	0.2147	0.1778	1.4082
11-89	0.0493	0.0537	1.5005	0.0204	0.0645	1.5088
90-100	-0.0885	-0.1139	1.6015	-0.0897	-0.0897	1.6002
MSE =	0.9186446			MSE =	0.9149338	
Niacin (mg)						
0-10	2.3241*	0.3200	10.0006	1.7364	-0.0848	10.3571
11-89	1.3981**	0.3340	10.7421	0.8658	0.0576	11.0172
90-100	0.7192	0.0919	11.1209	0.2768	-0.0246	11.1738
MSE =	59.34506			MSE =	58.8496	
Vitamin B6 (mg)						
0-10	0.1267	0.1356	0.9664	0.1281	0.1132	0.9651
11-89	0.0983*	0.0371	1.0249	0.0838	0.0227	1.0358
90-100	-0.0182	-0.0528	1.0907	-0.0339	-0.0494	1.0817
MSE =	0.5441536			MSE =	0.5443841	

(continued)

Table VI-B-5.9 (continued)

Percentile Height of Child	Age and sex adjusted ^a WIC status			Fully adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Vitamin B12 (mg)						
0-10	0.4057	0.4116	3.1958	0.2820	0.3001	3.2437
11-89	0.5220	0.7962*	3.0557	0.4152	0.8876**	3.0599
0-10	0.4057	0.4116	3.1958	0.2820	0.3001	3.2437
90-100	-0.9889	-1.3550	4.4165*	-1.0369	-1.3402	4.4999*
MSE =	29.80281			MSE =	29.86678	
Vitamin C (mg)						
0-10	23.6015	-13.3927	92.8228	23.3104	-13.7717	93.2631
11-89	12.1403*	0.3825	91.0044	13.2344*	-1.3831	91.3051
90-100	-5.1256	2.2739	98.0174	-4.8582	0.9476	97.1214
MSE =	7066.02			MSE =	6969.024	
Total intake adjusted for caloric intake						
Protein (g)						
0-10	-3.9654*	-0.5551	43.1286	-3.2056	-0.3366	42.4409
11-89	-1.0082	0.2923	40.9979	-1.1014	-0.0987	41.1865
90-100	-0.9659	0.8304	41.2255	-1.4097	0.7403	41.1379
MSE =	133.0313			MSE =	130.2062	
Fat (g)						
0-10	1.9839	0.7851	42.0750	2.1267	0.8152	41.9647
11-89	-0.1920	0.0153	42.3907	-0.3825	-0.2541	42.5326
90-100	1.7183	0.5443	41.9863	1.7913	0.6206	42.0076
MSE =	119.8358			MSE =	117.9357	
Carbohydrate (g)						
0-10	-4.1954	5.0876	147.4630	-4.6940	5.0393	147.9451
11-89	-0.6235	-1.2184	149.9389	0.3574	0.2256	149.1224
90-100	-3.5100	-1.4338	149.9979	-2.5613	-1.3120	149.7349
MSE =	1072.081			MSE =	1055.918	
Calcium (mg)						
0-10	-10.9037	52.6955	746.9057	20.6977	68.5166	723.3679
11-89	-52.4564**	-22.0785	704.3052	-43.9576*	-5.0834	696.8785
90-100	-24.6283	7.4496	712.8484	-11.5594	19.5212	710.3218
MSE =	98193.5			MSE =	95811.57	
Iron (mg)						
0-10	4.2279**	-0.2217	10.9839	3.6993**	-0.4539	11.2572
11-89	2.5289**	-0.2391	-10.1468	2.2997**	0.1422	10.2530
90-100	2.7418*	0.3617	10.6131	2.6284*	0.5855	10.5729
MSE =	67.15785			MSE =	67.29154	

(continued)

Table VI-B-5.9 (continued)

Percentile Height of Child	Age and sex adjusted ^a WIC status			Fully adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Magnesium (mg)						
0-10	-14.8609	-4.7811	174.2732	-10.1436	-2.9799	171.6648
11-89	-5.5664	-3.7938	163.8053	-4.2032	-1.9221	162.8950
90-100	-3.0626	5.2370	162.3011	-2.0243	7.0632	161.0094
MSE =	2746.677				2708.234	
Phosphorus (mg)						
0-10	-62.6131	23.7814	848.1165	-32.7759	33.8933	828.9564
11-89	-48.9337**	-16.5542	805.7567	-41.6290**	-5.8454	800.4070
90-100	-45.1560	9.5544	818.1746	-38.1600	19.1054	817.1361
MSE =	58637.05				56639.99	
Vitamin A (IU)						
0-10	762.7514	787.5733	3626.4707	665.9720	751.6378	3667.9339
11-89	410.6651	458.8925	3591.2651	407.9128	580.7337*	3554.8104
90-100	-670.8869	-551.1261	4472.0801	-693.5929	-484.7422	4475.5830
MSE =	22816750				22885678	
Thiamin (mg)						
0-10	0.1740*	0.0561	0.9518	0.1487*	0.0403	0.9683
11-89	0.0889**	0.0111	0.9791	0.0705*	-0.0031	0.9894
90-100	0.0517	0.0513	0.9907	0.0206	0.0488	0.9988
MSE =	0.2114452				0.211239	
Riboflavin (mg)						
0-10	0.1294	0.1856	1.4799	0.1355	0.1717	1.4731
11-89	0.0328	0.0338	1.5059	0.0345	0.0534	1.4997
90-100	-0.0820	-0.0468	1.5846	-0.0791	-0.0099	1.5822
MSE =	6637878				0.6594679	
Niacin (mg)						
0-10	1.6085	0.1837	10.5393	1.0872	-0.1352	10.8885
11-89	1.2617**	0.1701	10.7863	0.9812*	-0.0328	10.9430
90-100	0.7734	0.6456	10.9811	0.3637	0.6290	11.0260
MSE =	41.95559				41.69298	
Vitamin B6 (mg)						
0-10	0.0610	0.1231	1.0159	0.0677	0.1085	1.0146
11-89	0.0858*	0.0221	1.0289	0.0945*	0.0142	1.0289
90-100	-0.0132	-0.0020	1.0679	-0.0258	0.0115	1.0679
MSE =	0.3974906				0.3957596	
Vitamin B12 (mcg)						
0-10	0.1944	0.3713	3.3549	0.0874	0.2850	3.4031
11-89	0.4817	0.7479*	3.0687	0.4498	0.8605**	3.0377
90-100	-0.9729	-1.1915	4.3752*	-1.0109	-1.1442	4.4556*
MSE =	28.29792				28.33559	

(continued)

Table VI-B-5.9 (continued)

Percentile Height of Child	Age and sex adjusted ^a WIC status			Fully adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Vitamin C (mg)						
0-10	19.5437	-14.1656	95.8775	19.5216	-14.0660	96.3648
11-89	11.3670*	-0.5467	91.2553	13.9076**	-1.9106	90.8724
90-100	-4.8184	5.4140	97.2247	-4.3507	4.7620	96.2587
MSE =	6509.401			MSE =	6888.954	
Intake from potential WIC foods						
Calories (kcal)						
0-10	96.6499**	-4.0400	416.6400*	113.5802**	0.6492	402.0423
11-89	31.7907*	13.2141	359.9210	28.7261*	7.9797	362.8909
90-100	27.4862	11.0379	369.9560	26.0820	17.4489	367.3323
MSE =	52951.42			MSE =	51648.36	
Protein (g)						
0-10	-0.3834	0.3741	20.5674	0.7668	0.7437	19.6585
11-89	-0.9999	0.0424	18.4114	-1.0895	-0.0489	18.5383
90-100	-0.5562	0.8435	18.0948	-0.4085	1.2848	17.8806
MSE =	133.9144			MSE =	128.0546	
Fat (g)						
0-10	3.0749	0.8351	19.7489	37.008 *	0.9282	19.2017
11-89	0.8926	0.4443	17.3220	0.5972	0.1324	17.5671
90-100	0.5181	-0.0224	18.1379	0.3836	0.2673	18.0727
MSE =	135.2812			MSE =	131.6507	
Carbohydrate (g)						
0-10	14.1872**	-3.0307	38.9570	16.1476**	-2.3288	37.3501
11-89	5.0954**	1.8133	32.9213	5.2029**	1.3482	33.1922
90-100	5.2615	2.3030	33.4001	5.1669	2.6864	33.0000
MSE =	843.6813			MSE =	834.4742	
Calcium (mg)						
0-10	19.6442	61.4966	556.9253	50.9979	75.0621	532.3156
11-89	-44.7099*	-13.2099	517.9885	-44.8754*	-6.0251	517.1970
90-100	-15.7228	38.9027	504.4247	-6.8886	49.5016	500.1977
MSE =	126570.4			MSE =	123909.9	
Iron (mg)						
0-10	6.9194**	-0.5608	4.6610	6.6582**	-0.7116	4.6705
11-89	2.8893**	0.5707	3.5524	2.6819**	0.3988	3.7005
90-100	3.8025*	0.6472	4.0329	3.7055*	0.8434	3.9868
MSE =	86.62093			MSE =	86.74439	

(continued)

Table VI-B-5.9 (continued)

Percentile Height of Child	Age and sex adjusted ^a WIC status			Fully adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Magnesium (mg)						
0-11	2.4547	-5.9897	87.6059	7.1636	-3.9311	83.7701
11-89	-1.8228	0.6859	75.8517	-2.1831	0.3195	76.4023
90-100	2.3002	5.6651	73.5321	2.6681	7.7005	72.3371
MSE =	2674.297			MSE =	2595.661	
Phosphorus (mg)						
0-10	-0.2189	29.1436	505.6776	29.7515	40.2130	482.3668
11-89	-35.8314	-4.5422	462.9672	-36.1234*	-2.7766	461.0246
90-100	-21.5685	28.0610	454.4890	-15.2450	40.0665	449.2682
MSE =	89005.45			MSE =	85978.32	
Vitamin A (IU)						
0-10	1058.1066**	208.2229	896.0414	1038.2961**	171.5650	888.5998
11-89	422.3706**	117.1444	982.1969	393.0764**	89.2817	1004.4763
90-100	257.8818	50.7706	1110.9433	239.5718	72.8623	1114.8617
MSE =	2219104			MSE =	2218145	
Thiamin (mg)						
0-10	0.3192**	0.0210	0.3586	0.3147**	0.0158	0.3547
11-89	0.1263**	0.0313	0.3428	0.1179**	0.0214	0.3503
90-100	0.1294	0.0442	0.3640	0.1246	0.0533	0.3599
MSE =	0.2430915			MSE =	0.2420536	
Riboflavin (mg)						
0-10	0.3408**	0.1464	0.8199	0.3651**	0.1473	0.7942
11-89	0.0715	0.0127	0.8122	0.0617	0.0098	0.8189
90-100	0.1025	0.0685	0.8155	0.1055	0.0890	0.8114
MSE =	0.4905528			MSE =	0.486856	
Niacin (mg)						
0-10	4.1471**	0.2621	2.0691	3.9103**	0.1200	2.1497
11-89	1.5988**	0.3229	2.2927	1.4771**	0.2385	2.3707
90-100	2.0477*	0.6281	2.3258	1.9665	0.7208	2.3065
MSE =	38.07643			MSE =	38.06919	
Vitamin B6 (mg)						
0-10	0.3177**	0.0380	0.3094	0.3180**	0.0266	0.3032
11-89	0.1393**	0.0509	0.3133	0.1317**	0.0368	0.3219
90-100	0.1243	0.0198	0.3325	0.1132	0.0285	0.3328
Vitamin B12 (mcg)						
0-10	1.0317**	0.5206	1.7385	1.0786**	0.4926	1.7031
11-89	0.2379	0.0966	1.9121	0.2049	0.0645	1.9400
90-100	0.2163	0.0377	1.9713	0.2030	0.0730	1.9737
MSE =	4.25658			MSE =	4.231363	

(continued)

Table VI-B-5.9 (continued)

Percentile Height of Child	Age and sex adjusted ^a WIC status			Fully adjusted WIC status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Vitamin C (mg)						
0-10	27.3480**	-9.4268	41.9696	29.1462**	-8.6327	40.9342
11-89	15.3165**	2.5626	37.5705	16.9841**	1.3995	37.4802
90-100	2.6070	6.0279	42.3053	2.7273	5.8962	41.5364
MSE =	4700.59				MSE = 4660.828	

Percentile Height of Child	Current WIC	Past WIC	Controls	Total
0-10	94	117	91	302
11-89	471 (14.8%)	522 (16.4%)	590	1583
90-100	<u>72</u>	<u>82</u>	<u>82</u>	<u>226</u>
Total	637	711	763	2111

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aAge adjustment includes second-order term (age²) to account for nonlinearity of relationship. See Vol. II, Table V-1 for full covariate list. Values are differences from control group means.

Table VI-B-5.10

Mean Dietary Intake and Receipt of Welfare Benefits
(AFDC) and Food Stamps

Participation Group	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Total Intake Per Day						
Calories (kcal)						
Nonparticipants	-3.3903	45.6620	1088.4199	-3.8680	54.5239	1079.2291
AFDC Only	-98.9027	-78.5408	1152.6812	-79.5706	-68.9482	1136.0217
Food Stamps Only	-17.3537	-60.4670	1149.7520	-10.2032	-58.4351	1153.9081
AFDC and Foodstamp	0.6073	-44.1324	1235.4371**	-2.5970	-44.1063	1242.9291**
MSE =	192595.2			MSE =	190094	
Protein (g)						
Nonparticipants	-0.9273	0.9720	40.0377	-1.1039	0.9269	40.0390
AFDC Only	-12.9363*	-6.9863	49.7286*	-11.8072*	-6.5904	48.5818*
Food Stamps Only	-2.6407	-0.4013	40.9436	-2.5122	-0.5905	41.3042
AFDC and Foodstamp	1.2094	0.1024	43.3516	0.8930	-0.2102	43.3656
MSE =	363.38			MSE =	357.83	
Fat (g)						
Nonparticipants	-0.4277	1.6704	40.6089	-0.5311	1.8075	40.6518
AFDC Only	-9.3765	-6.9390	46.7630	-8.0685	-6.3434	45.8827
Food Stamps Only	0.2003	-2.4817	42.8228	0.4892	-2.3593	42.6248
AFDC and Foodstamp	1.6808	0.2547	45.7322*	1.6847	0.1954	45.7126*
MSE =	433.62			MSE =	426.78	
Carbohydrate (g)						
Nonparticipants	-1.1413	8.0145	144.0044	-0.7031	10.3805*	141.2834
AFDC Only	6.7106	2.9189	136.5493	7.8681	3.1305	135.5809
Food Stamps Only	-4.7710	-9.8233	152.6786	-3.6680	-9.1997	153.9074*
AFDC and Foodstamp	-5.5305	-11.4593	165.1756**	-5.8645	-10.9371	167.0959***
MSE =	4231.25			MSE =	4174.34	
Calcium (mg)						
Nonparticipants	-66.3581*	18.1885	698.0396	-62.0026*	33.9804	683.7193
AFDC Only	-61.6586	106.8641	683.9808	-38.2232	115.3623	692.0112
Food Stamps Only	-59.8289	-51.1641	727.3882	-57.7913	-35.8385	722.1237
AFDC and Foodstamp	33.9710	-22.6572	712.7554	48.9999	-4.8961	715.6726
MSE =	148630.8			MSE =	144920.6	
Iron (mg)						
Nonparticipants	3.1880**	0.5041	9.5978	2.9285**	0.6229	9.3947
AFDC Only	0.8441	-1.6194	12.4668	0.8776	-1.2421	12.5294
Food Stamps Only	2.7980**	-0.9054	10.9630	2.6540**	-1.0490	11.0753
AFDC and Foodstamp	1.7280	0.2523	11.4115	1.3748	0.1191	12.0640*
MSE =	80.07			MSE =	80.02	
Magnesium (mg)						
Nonparticipants	-9.3406	5.7577	160.9041	-9.3821	8.6011	158.0824
AFDC Only	-38.1930	-17.3711	188.7225	-33.5369	-16.1709	188.7671
Food Stamps Only	-2.9136	-8.6075	160.0651	-2.5015	-7.5568	160.5992
AFDC and Foodstamp	-1.4273	-12.4203	176.5256	-1.3809	-11.6940	178.9817*
MSE =	6130.71			MSE =	6042.8	
Phosphorus (mg)						
Nonparticipants	-58.0683*	18.4138	792.2741	-55.6033	29.1971	782.8085
AFDC Only	-211.1985*	-42.1400	911.0878	-179.5119	-29.6524	908.1065
Food Stamps Only	-56.4381	-29.0919	807.5884	-54.5941	-19.3102	804.5742
AFDC and Foodstamp	2.8165	-34.5269	846.0387	17.8725	-18.4756	843.5828
MSE =	138615.3			MSE =	135402.1	

(continued)

Table VI-B-5.10 (continued)

Participation Group	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total Intake Per Day (continued)</u>						
Vitamin A (IU)						
Nonparticipants	394.4743	347.5035	3672.0061	314.9208	410.8668	3648.8338
AFDC Only	273.1040	727.7162	3648.3091	55.1803	459.5249	3944.0147
Food Stamps Only	489.6098	766.7654	3406.7416	451.2142	830.4579	3352.6640
AFDC & Foodstamp	309.5237	9.4338	4030.2274	316.7696	278.9644	4034.5139
MSE =	24318469				24417808	
Thiamin (mg)						
Nonparticipants	0.0995*	0.0369	0.9310	0.0784	0.0378	0.9288
AFDC Only	-0.0646	-0.0304	1.1626	-0.0518	-0.0110	1.1529
Food Stamps Only	0.1058	-0.0106	0.9912	0.0947	-0.0245	1.0012
AFDC and Foodstamp	0.0534	-0.0276	1.0719*	0.0304	-0.0428	1.1005*
MSE =	0.3289				0.33	
Riboflavin (mg)						
Nonparticipants	0.0293	0.1035	1.4447	0.0216	0.1261	1.4040
AFDC Only	-0.6802**	-0.4487	2.1563***	-0.6351*	-0.4314	2.2089***
Food Stamps Only	-0.0208	0.0360	1.5466	-0.0314	0.0599	1.5406
AFDC and Foodstamp	0.1715	-0.0322	1.5444	0.2029	0.0056	1.5874
MSE =	0.9118				0.91	
Niacin (mg)						
Nonparticipants	1.7086**	0.3733	10.0985	1.4303*	0.3906	9.9382
AFDC Only	-2.7706	-2.8666	14.6895**	-2.6545	-2.7115	14.6422**
Food Stamps Only	1.2210	0.3231	10.9023	1.0607	0.1382	11.1585
AFDC and Foodstamp	0.3541	-0.6617	12.1801*	-0.0671	-0.9619	12.7686**
MSE =	59.02				58.78	
Vitamin B6 (mg)						
Nonparticipants	0.0784	0.0423	1.0082	0.0703	0.0416	0.9843
AFDC Only	-0.1466	-0.0461	1.2771	-0.1264	-0.0392	1.2834
Food Stamps Only	0.1270	0.1015	0.9649	0.1217	0.0873	0.9813
AFDC and Foodstamp	0.0366	-0.0762	1.1274	0.0308	-0.0899	1.1759*
MSE =	0.54				0.54	
Vitamin B12 (mcg)						
Nonparticipants	0.1238	0.3815	3.2335	0.0436	0.3865	3.2301
AFDC Only	-0.0008	0.2268	3.2400	0.0821	0.2923	3.3767
Food Stamps Only	0.2304	1.0009	3.1686	0.1438	1.1219	3.0973
AFDC and Foodstamp	0.8453	0.2716	3.2320	0.9823	0.5305	3.1890
MSE =	29.87				29.94	
Vitamin C (mg)						
Nonparticipants	13.7006*	2.9138	90.0911	15.4078*	2.6879	88.6983
AFDC Only	33.7347	26.5335	80.3275	30.1764	23.9486	78.3267
Food Stamps Only	12.5962	-9.2406	93.0130	14.4502	-11.3981	95.0716
AFDC and Foodstamp	0.8709	-10.8465	101.0114	-1.9892	-14.8121	103.8555
MSE =	7082.09				6979.19	
<u>Total Intake Adjusted for Caloric Intake</u>						
Protein (g)						
Nonparticipants	-0.8097	-0.6112	41.5555	-0.9699	-0.9633	41.8751
AFDC Only	-9.5071**	-4.2631	49.0182**	-9.0488**	-4.2002	48.4491**
Food Stamps Only	-2.0390	1.6952	40.3348	-2.1584	1.4352	40.5515
AFDC and Foodstamp	1.1884	1.6326	39.7719	0.9830	1.3188	39.5268
MSE =	131.91				129.44	
Fat (g)						
Nonparticipants	-0.2908	-0.1730	42.3761	-0.3751	-0.3904	42.7868
AFDC Only	-5.3837	-3.7682	45.9359	-4.8611	-3.5642	45.7284
Food Stamps Only	0.9009	-0.0406	42.1139	0.9005	-0.0038	41.7495
AFDC and Foodstamp	1.6563	2.0364	41.5642	1.7894	1.9733	41.2490
MSE =	119.78				117.96	

(continued)

Table VI-B-5.10 (continued)

Participation Group	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Total Intake Adjusted for Caloric Intake (continued)						
Carbohydrate (g)						
Nonparticipants	-0.7069	2.1646	149.6124	-0.2076	3.3956	148.0685
AFDC Only	19.3814*	12.9811	133.9246*	18.0617*	11.9633	135.0906
Food Stamps Only	-2.5478	-2.0767	150.4291	-2.3610	-1.7137	151.1257
AFDC and Foodstamp	-5.6083	-5.8053	151.9487	-5.5318	-5.2867	152.9100
MSE =	1070.68				1055.15	
Calcium (mg)						
Nonparticipants	-64.6299**	-5.0872	720.3529	-60.0381*	6.2885	710.6192
AFDC Only	-11.2441	146.8994	673.5376	2.1895	150.3800	690.0670
Food Stamps Only	-50.9830	-20.3417	718.4381	-52.6093	-6.1603	711.0954
AFDC and Foodstamp	33.6615	-0.1612	660.1283	50.3189	17.5048	659.4319
MSE =	98635.07				95932.98	
Iron (mg)						
Nonparticipants	3.2156**	0.1320	9.9546	2.9605**	0.1717	9.8330
AFDC Only	1.6501	-0.9793	12.2999	1.5360	-0.6715	12.4977
Food Stamps Only	2.9394**	-0.4126	10.8199	2.7385**	-0.5655	10.8956
AFDC and Foodstamp	1.7231	0.6119	10.5701	1.3963	0.4841	11.1477
MSE =	67.31				67.03	
Magnesium (mg)						
Nonparticipants	-8.8905*	-0.3048	166.7159	-8.8693*	1.3738	165.1031
AFDC Only	-25.0619	-6.9433	186.0025	-22.9896	-7.0317	188.2597*
Food Stamps Only	-0.6096	-0.5794	157.7340	-1.1490	0.1889	157.7209
AFDC and Foodstamp	-1.5080	-6.5609	162.8181	-1.0367	-5.8476	164.3034
MSE =	2737.05				2704.1	
Phosphorus (mg)						
Nonparticipants	-55.8833**	-11.0156	820.4866	-53.1122**	-5.9182	816.9198
AFDC Only	-147.4551*	8.4799	897.8836	-128.2655*	14.7528	905.6412
Food Stamps Only	-45.2535	9.8794	796.2721	-48.0229*	18.3241	790.5895
AFDC and Foodstamp	2.4251	-6.0833	779.4978	19.5450	9.9305	772.2652
MSE =	58641.62				56581.77	
Vitamin A (IU)						
Nonparticipants	403.8243	221.5738	3792.7289	325.7787	257.8137	3797.5103
AFDC Only	545.8647	944.3214	3591.8078	278.5416	653.0681	3933.2696
Food Stamps Only	537.4691	933.5253	3358.3187	479.8553	994.4900	3291.7105
AFDC & Foodstamp	307.8489	131.1451	3745.4961	324.0596	402.7743	3723.6711
MSE =	22864530				22931017	
Thiamin (mg)						
Nonparticipants	0.1022**	0.0011	0.9653	0.0814*	-0.0053	0.9707
AFDC Only	0.0128	0.0311	1.1465	0.0111	0.0435	1.1499
Food Stamps Only	0.1193*	0.0368	0.9774	0.1027*	0.0217	0.9840
AFDC and Foodstamp	0.0530	0.0069	0.9911	0.0325	-0.0079	1.0130
MSE =	0.21				0.21	
Riboflavin (mg)						
Nonparticipants	0.0332	0.0512	1.4949	0.0261	0.0626	1.4657
AFDC Only	-0.5668*	-0.3586	2.1328***	-0.5424*	-0.3511	2.2045***
Food Stamps Only	-0.0009	0.1053	1.5264	-0.0196	0.1280	1.5153
AFDC and Foodstamp	0.1708	0.0185	1.4259	0.2060*	0.0570	1.4584
MSE =	0.66				0.65	
Niacin (mg)						
Nonparticipants	1.7408**	-0.0596	10.5135	1.4673**	-0.1300	10.4439
AFDC Only	-1.8329	-2.1219	14.4953**	-1.8947	-2.0532	14.6057**
Food Stamps Only	1.3855*	0.8964	10.7358	1.1581	0.6961	10.9512
AFDC and Foodstamp	0.3484	-0.2432	11.2013	-0.0423	-0.5408	11.7112
MSE =	41.73				41.46	

(continued)

Table VI-B-5.10 (continued)

Participation Group	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total Intake Adjusted for Caloric Intake (continued)</u>						
Vitamin B6 (mg)						
Nonparticipants	0.0814	0.0024	1.0465	0.0737	-0.0069	1.0314
AFDC Only	-0.0601	0.0226	1.2592	-0.0557	0.0221	1.2800
Food Stamps Only	0.1422*	0.1544*	0.9496	0.1308*	0.1393*	0.9620
AFDC and Foodstamp	0.0360	-0.0376	1.0371	0.0331	-0.0507	1.0774
MSE =	0.4				MSE = 0.39	
Vitamin B12 (mcg)						
Nonparticipants	0.1334	0.2527	3.3570	0.0547	0.2300	3.3821
AFDC Only	0.2782	0.4484	3.1823	0.3105	0.4902	3.3657
Food Stamps Only	0.2794	1.1714*	3.1190	0.1731	1.2896*	3.0350
AFDC and Foodstamp	0.8436	0.3960	2.9408	0.9898	0.6571	2.8711
MSE =	28.35				MSE = 28.39	
Vitamin C (mg)						
Nonparticipants	13.8842*	0.4404	92.4622	15.6228*	-0.3424	91.6419
AFDC Only	39.0919	30.7878	79.2178	34.5987	27.7805	78.1139
Food Stamps Only	13.5361	-5.9653	92.0620	15.0173	-8.1504	93.8648
AFDC and Foodstamp	0.8380	-8.4560	95.4191	-1.8448	-12.3608	97.7012
MSE =	6520.12				MSE = 6395.13	
<u>Intake from Potential WIC Foods</u>						
Calories (kcal)						
Nonparticipants	37.3365*	21.7750	358.3260	39.8647*	19.4126	359.3473
AFDC Only	-54.3989	8.9470	446.0496	-47.9928	12.3069	443.5019
Food Stamps Only	58.4164*	-3.5335	361.5111	58.9879*	-5.6271	361.0305
AFDC and Foodstamp	30.0715	-12.4421	395.4790	34.6001	-6.4037	390.3000
MSE =	53583.08				MSE = 52290.93	
Protein (g)						
Nonparticipants	-0.8937	0.6071	18.3130	-0.7148	0.5794	18.3487
AFDC Only	-6.1256	0.0153	22.7881	-5.4204	0.2901	22.5772
Food Stamps Only	-1.0490	-0.5187	18.3397	-0.9736	-0.4592	18.2333
AFDC and Foodstamp	-0.1273	-0.4889	19.5769	0.4244	0.1838	19.0038
MSE =	133.95				MSE = 128.47	
Fat (g)						
Nonparticipants	0.8422	0.9095	17.3563	0.8196	0.6624	17.6284
AFDC Only	-4.2227	-0.6227	21.4688	-3.9232	-0.4983	21.2542
Food Stamps Only	1.9122	-0.3252	17.3556	1.9436	-0.3749	17.2297
AFDC and Foodstamp	1.1678	-0.0090	18.8886	1.3690	0.3936	18.4108
MSE =	136.22				MSE = 132.81	
Carbohydrate (g)						
Nonparticipants	6.4831**	2.5394	32.7043	7.1066**	2.5773	32.2801
AFDC Only	-0.5915	3.2936	41.5738	-0.0375	3.5195	41.3145
Food Stamps Only	8.6129**	0.0687	33.1721	8.7451**	-0.3280	33.5195
AFDC and Foodstamp	3.8825	-2.7747	37.0216	4.1369	-2.8636	37.1467
MSE =	853.14				MSE = 842.76	
Calcium (mg)						
Nonparticipants	-42.8241	12.7073	519.8104	-39.2274	19.4709	514.8993
AFDC Only	-33.4493	151.2949	490.0034	-11.6654	158.2305	491.0923
Food Stamps Only	-64.2519	-30.4690	535.2243	-63.8480	-21.5087	530.0787
AFDC and Foodstamp	33.2589	-1.6032	511.7903	48.0205	16.2130	504.9027
MSE =	127136.8				MSE = 124364.8	

(continued)

Table VI-B-5.10 (continued)

Participation Group	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Intake from Potential WIC Foods (continued)</u>						
Iron (mg)						
Nonparticipants	3.7058**	0.4920	3.2895	3.6179**	0.5017	3.2095
AFDC Only	1.7866	-0.4622	5.8560	1.4734	-0.3789	6.0678
Food Stamps Only	4.0151**	-0.4339	4.5331	3.8876**	-0.6184	4.6150
AFDC and Foodstamp	2.5039*	0.6717	4.0352	2.2801*	0.5358	4.4018
MSE =	87.56			MSE =	87.23	
Magnesium (mg)						
Nonparticipants	-0.5719	3.6817	75.2130	0.0153	3.9678	74.6322
AFDC Only	-26.1300	-2.6484	98.9997*	-21.9493	0.3431	97.4430*
Food Stamps Only	0.3632	-0.4934	74.3969	0.2608	-0.5422	74.5367
AFDC and Foodstamp	-0.8491	-8.9093	83.9502	0.7091	-7.1620	83.1672
MSE =	2675.19			MSE =	2604.21	
Phosphorus (mg)						
Nonparticipants	-33.3399	14.6168	461.2959	-28.4557	17.3753	458.2286
AFDC Only	-113.8509	48.2712	530.1322	-90.1779	59.4027	527.0416
Food Stamps Only	-45.1182	-17.0722	467.7430	-43.9306	-12.9704	464.1543
AFDC and Foodstamp	6.9309	-11.8154	477.8097	22.3896	5.5576	468.3202
MSE =	89184.09			MSE =	86273.37	
Vitamin A (IU)						
Nonparticipants	469.4014**	144.5536	918.2847	462.0821**	134.8936	901.8730
AFDC Only	-97.2347	-85.9228	1641.6701*	-132.6057	-67.3287	1681.4821*
Food Stamps Only	572.8257**	-12.3276	1090.5316	551.5311**	-22.8946	1098.5602
AFDC & Foodstamp	414.3805*	132.6789	982.9356	404.9682*	109.2556	1039.3292
MSE =	2221998			MSE =	2217765	
Thiamin (mg)						
Nonparticipants	0.1601**	0.0350	0.3238	0.1583**	0.0343	0.3165
AFDC Only	0.0052	0.0161	0.5338*	0.0026	0.0303	0.5385*
Food Stamps Only	0.1643**	-0.0110	0.3836	0.1583**	-0.0190	0.3895
AFDC and Foodstamp	0.1241*	0.0293	0.3523	0.1159*	0.0192	0.3738
MSE =	0.24			MSE =	0.24	
Riboflavin (mg)						
Nonparticipants	0.0997	0.0410	0.7920	0.0993	0.0433	0.7833
AFDC Only	-0.0659	0.1402	0.9855	-0.0462	0.1615	0.9962
Food Stamps Only	0.0959	-0.0330	0.8669	0.0889	-0.0294	0.8638
AFDC and Foodstamp	0.1623	0.0551	0.7892	0.1763*	0.0669	0.7986
MSE =	0.49			MSE =	0.49	
Niacin (mg)						
Nonparticipants	2.0206**	0.4620	1.9881	1.9374**	0.4843	1.8798
AFDC Only	-0.2005	-0.7180	4.8230*	-0.2993	-0.5736	4.9414*
Food Stamps Only	2.4086**	-0.1001	2.6934	2.2976**	-0.1963	2.7882
AFDC and Foodstamp	1.3662	0.2590	2.3185	1.1953	0.0859	2.6662
MSE =	38.12			MSE =	38.03	
Vitamin B6 (mg)						
Nonparticipants	0.1513**	0.0458	0.2922	0.1497**	0.0383	0.2888
AFDC Only	-0.0741	-0.0525	0.6261**	-0.0741	-0.0351	0.6313**
Food Stamps Only	0.2074**	0.0268	0.3335	0.2003**	0.0163	0.3387
AFDC and Foodstamp	0.1250	0.0321	0.3195	0.1270	0.0273	0.3320
MSE =	0.35			MSE =	0.35	

(continued)

Table VI-B-5.10 (continued)

Participation Group	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Intake from Potential WIC Foods (continued)</u>						
Vitamin B12 (mcg)						
Nonparticipants	0.2752	0.1448	1.8311	0.2728	0.1245	1.8257
AFDC Only	-0.3172	0.1549	2.6818	-0.2848	0.1888	2.7049
Food Stamps Only	0.3648	-0.0006	2.0283	0.3482	0.0016	2.0220
AFDC and Foodstamp	0.4258	0.1811	1.8422	0.4714	0.2007	1.8487
MSE =	4.26				4.23	
Vitamin C (mg)						
Nonparticipants	19.6904**	2.2392	37.7070	21.4785**	1.8945	36.0618
AFDC Only	14.8477	8.6050	47.8158	13.9022	8.3935	47.4099
Food Stamps Only	20.3036**	-0.0853	36.7569	21.0658**	-1.1666	38.0778
AFDC and Foodstamp	4.9122	-3.6002	42.9389	3.6010	-6.9305	45.9483
MSE =	4715.16				4673.36	
Participation Group	Current WIC	Past WIC	Controls			
Nonparticipants						
AFDC Only						
Food Stamps Only						
AFDC and Food Stamp						
Total						

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aAge adjustment includes second order term (age²) to account for nonlinearity of relationship; see Vol. II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-B-5.11

Proportion of Children with Diets Below 100 Percent of the
Recommended Energy Intake and Below 77 Percent of the
Recommended Dietary Allowances by Participation in
Welfare (AFDC) or Food Stamp Programs

Participation Group	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Proportion below RDA level</u>						
Calories <100% RDA						
Nonparticipants	0.0176	-0.0464	0.6578	0.0184	-0.0461	0.6612
AFDC only	0.0297	-0.0074	0.6755	0.0261	-0.0050	0.6942
Food stamps only	0.0074	0.0124	0.6385	0.0057	0.0138	0.6289
AFDC and foodstamp	-0.0823	0.0001	0.5754	-0.0668	0.0150	0.5649
	MSE = 0.2265622			MSE = 0.2258877		
Protein <77% RDA						
Nonparticipants	-0.0019	-0.0220	0.0696	0.0014	-0.0219	0.0654
AFDC only	0.0091	0.0797	0.0359	-0.0023	0.0769	0.0486
Food stamps only	0.0164	0.0241	0.0442	0.0139	0.0266	0.0440
AFDC and foodstamp	-0.0109	-0.0354	0.0843	-0.0086	-0.0387	0.0911
	MSE = 0.0585662			MSE = 0.05693083		
Calcium <77% RDA						
Nonparticipants	0.0654	0.0569	0.3883	0.0649	0.0420	0.4001
AFDC only	-0.0024	-0.0381	0.4057	-0.0269	-0.0454	0.4030
Food stamps only	-0.0289	0.0377	0.3906	-0.0308	0.0180	0.3982
AFDC and foodstamp	-0.1117*	-0.0869	0.4444	-0.1240*	-0.0978	0.4385
	MSE = 0.2175241			MSE = 0.2128593		
Iron <77% RDA						
Nonparticipants	-0.1363**	-0.0283	0.7157	-0.1355**	-0.0315	0.7244
AFDC only	-0.0652	0.0897	0.6259	-0.0811	0.0671	0.6369
Food stamps only	-0.1617**	0.0150	0.6914	-0.1658**	0.0174	0.6878
AFDC and foodstamp	-0.0999	0.0185	0.6593	-0.0957	0.0192	0.6465
	MSE = 0.2071586			MSE = 0.2082773		
Magnesium <77% RDA						
Nonparticipants	0.0105	-0.0128	0.2221	0.0126	-0.0230	0.2271
AFDC only	0.1437	0.2842**	0.0576*	0.1321	0.2836**	0.0536*
Food stamps only	-0.0109	0.0073	0.2217	-0.0101	0.0059	0.2240
AFDC and foodstamp	0.0127	0.0144	0.1902	0.0135	0.0061	0.1857
	MSE = 0.1535058			MSE = 0.1517714		
Phosphorus <77% RDA						
Nonparticipants	-0.0192	-0.0342	0.2416	-0.0228	-0.0471	0.2536
AFDC only	0.1423	0.1720	0.1107	0.1209	0.1578	0.1061
Food stamps only	-0.0106	0.0121	0.2172	-0.0112	0.0061	0.2198
AFDC and foodstamp	-0.0035	-0.0100	0.2267	-0.0147	-0.0214	0.2215
	MSE = 0.1630639			MSE = 0.1598978		
Vitamin A 77% RDA						
Nonparticipants	-0.0697*	-0.0009	0.2474	-0.0750*	-0.0145	0.2602
AFDC only	-0.1090	-0.1152	0.3453	-0.1052	-0.1018	0.3417
Food stamps only	-0.0948*	-0.0462	0.2978	-0.0998*	-0.0477	0.2928
AFDC and foodstamp	-0.0121	0.0749	0.2155	-0.0096	0.0697	0.2084
	MSE = 0.1791768			MSE = 0.1773208		
Thiamin <77% RDA						
Nonparticipants	0.0034	-0.0365	0.1328	0.0070	-0.0387	0.1277
AFDC only	-0.0171	-0.0142	0.1274	-0.0188	-0.0135	0.1332
Food stamps only	-0.0318	-0.0096	0.1170	-0.0326	-0.0019	0.1138
AFDC and foodstamp	0.0290	0.0453	0.0858	0.0394	0.0459	0.0922
	MSE = 0.1011654			MSE = 0.09961573		

(continued)

Table VI-B-5.11 (continued)

Participation Group	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Proportion below RDA level</u>						
Riboflavin <77% RDA						
Nonparticipants	-0.0343	-0.0161	0.0963	-0.0347	-0.0217	0.0965
AFDC only	-0.0315	0.0041	0.0812	-0.0442	0.0017	0.0839
Food stamps only	-0.0247	-0.0248	0.0893	-0.0231	-0.0222	0.0901
AFDC and foodstamp	-0.0521	-0.0343	0.1480	-0.0537	-0.0429	0.1523
	MSE = 0.07774252			MSE = 0.07670245		
Niacin <77% RDA						
Nonparticipants	-0.0633	-0.0328	0.3524	-0.0493	-0.0369	0.3488
AFDC only	0.0981	0.1547	0.2269	0.1086	0.1682	0.2333
Food stamps only	-0.0519	0.0117	0.3313	-0.0494	0.0236	0.3204
AFDC and foodstamp	-0.0322	0.0904	0.2255**	-0.0020	0.1010	0.2171*
	MSE = 0.2095434			MSE = 0.2058086		
Vitamin B6 <77% RDA						
Nonparticipants	0.0048	-0.0399	0.3157	0.0007	-0.0448	0.3266
AFDC only	-0.1029	-0.0069	0.2947	-0.1043	-0.0016	0.2860
Food stamps only	-0.0149	-0.0269	0.3419	-0.0205	-0.0201	0.3388
AFDC and foodstamp	-0.0675	0.0102	0.2791	-0.0681	-0.0013	0.2702
	MSE = 0.2062425			MSE = 0.2054316		
Vitamin B12 <77% RDA						
Nonparticipants	-0.0245	-0.0173	0.2096	-0.0301	-0.0293	0.2211
AFDC only	0.0898	0.1584	0.0724	0.0619	0.1505	0.0673
Food stamps only	-0.0313	-0.0320	0.2068	-0.0349	-0.0451	0.2116
AFDC and foodstamp	-0.0522	-0.0381	0.2293	-0.0709	-0.0548	0.2324
	MSE = 0.1515599			MSE = 0.1493919		
Vitamin C <77% RDA						
Nonparticipants	-0.0578	0.0142	0.2539	-0.0687*	0.0100	0.2684
AFDC only	-0.1121	-0.1083	0.3090	-0.1147	-0.1056	0.3148
Food stamps only	-0.0525	0.0193	0.2539	-0.0634	0.0271	0.2454
AFDC and foodstamp	-0.0256	-0.0075	0.2405	-0.0240	0.0005	0.2264
	MSE = 0.1803299			MSE = 0.1783891		
Participation Group						
n	Current WIC	Past WIC	Control	Total		
Nonparticipants	241	279	471	991		
AFDC only	32	34	23	89		
Food stamps only	246	173	161	580		
AFDC and foodstamp	192	151	108	451		
Total	711	637	763	2,111		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship.
See Vol. II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-B-5.12

Mean Dietary Intake and Maternal Education

Maternal Education (yrs)	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total intake per day</u>						
Calories (kcal)						
< 12	41.0154	32.4171	1128.8172	20.5199	20.7636	1140.3312
12	-17.1763	-54.5742	1130.1406	-30.0733	-52.9511	1136.4617
> 12	-15.9874	59.9220	1096.4815	-38.0026	59.4663	1091.9552
	MSE = 194149.9			MSE = 190167.4		
Protein (g)						
< 12	-0.5352	0.7361	42.1804	-1.1270	0.2292	42.2241
12	-1.6896	-0.8816	40.3686	-2.0039	-1.0537	40.9488
> 12	-1.9063	1.9100	39.1170	-2.1082	1.5529	39.4207
	MSE = 364.886			MSE = 357.893		
Fat (g)						
< 12	1.5951	0.6758	43.2469	1.0628	0.2073	43.1992
12	-0.4219	-1.1833	41.7297	-1.0334	-1.1711	42.2871
> 12	-1.2976	1.9025	39.1579	-2.2447	1.8970	39.9611
	MSE = 435.781			MSE = 427.484		
Carbohydrate (g)						
< 12	5.2125	5.6578	145.1921	2.1181	4.4465	148.1102
12	-3.3207	-8.3843	151.5510	-4.5888	-7.5488	151.0956
> 12	-3.0558	8.3472	150.9073	-5.3568	9.3294	146.9207
	MSE = 4257.771			MSE = 4185.94		
Calcium (mg)						
< 12	-0.2523	10.5740	698.4166	0.4189	16.7554	693.1933
12	-73.3509*	-39.8686	721.1751	-75.0286*	-25.9640	723.6486
> 12	-57.6325	46.1848	693.0909	-52.7261	79.4512	678.1787
	MSE = 149047.6			MSE = 145229.6		
Iron (mg)						
< 12	3.5266**	0.6729	9.8019	2.9593**	0.4371	10.0258
12	2.2891**	-0.0395	10.4834	1.8610*	-0.2030	10.6780
> 12	4.8632**	-0.0974	10.7599	4.0264**	-0.2216	11.2000
	MSE = 80.196			MSE = 80.001		
Magnesium (mg)						
< 12	2.9946	1.1615	161.9118	0.5573	0.0523	163.3653
12	-11.4413	-6.7543	164.5678	-11.8583	-4.8272	164.8430
> 12	-8.9246	3.5246	166.4744	-7.5253	7.3878	162.1453
	MSE = 6168.833			MSE = 6057.389		
Phosphorus (mg)						
< 12	-23.8025	-4.0434	821.6820	-21.9031	-0.5953	812.5263
12	-63.6682*	-26.7585	802.8631	-66.7504*	-16.2578	809.9845
> 12	-66.0291	55.9111	774.9370	-65.4876	75.3542	773.8350
	MSE = 139030.1			MSE = 135533.9		
Vitamin A (IU)						
< 12	853.3395*	728.3462	3337.2377	830.7167*	889.0795*	3280.1187
12	17.8630	-47.6929	3876.9002	-108.4196	-99.3380	3917.6170
> 12	110.3745	911.9547	4067.2195	-276.1183	878.6080	4264.3962
	MSE = 24234394			MSE = 24310969		
Thiamin (mg)						
< 12	0.1272**	0.0631	0.9570	0.0855*	0.0396	0.9757
12	0.1090*	0.0021	0.9691	0.0787	-0.0132	0.9847
> 12	0.1107	-0.0392	1.0051	0.0560	-0.0585	1.0351
	MSE = 0.33			MSE = 0.329		

(continued)

Table VI-B-5.12

Maternal Education (yrs)	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total intake per day</u>						
Riboflavin (mg)						
< 12	0.1302	0.1034	1.4716	0.1286	0.1203	1.4531
12	-0.0546	-0.0623	1.5624	-0.0895	-0.0638	1.5820
> 12	0.0373	0.1863	1.4533	-0.0214	0.2118	1.4949
		MSE = 0.918			MSE = 0.914	
Niacin (mg)	CURRENT WIC	PAST WIC	NEVER WIC	CURRENT WIC	PAST WIC	NEVER WIC
< 12	1.6599**	0.7791	10.5237	1.0738	0.5047	10.8281
12	1.3428*	0.1420	10.6125	0.9150	-0.1444	10.8157
> 12	1.6018	-1.1870	11.2818	0.9549	-1.4946	11.5549
		MSE = 59.309			MSE = 58.835	
Vitamin B6 (mg)						
< 12	0.1074*	0.1020	1.0136	0.0954	0.0932	1.0157
12	0.0678	-0.0167	1.0221	0.0607	-0.0336	1.0340
> 12	0.1217	-0.0577	1.0523	0.0946	-0.0735	1.0697
		MSE = 0.543			MSE = 0.544	
Vitamin B12 (mcg)						
< 12	0.6369	0.8864*	3.1612	0.7200	1.1004**	2.9583
12	-0.1496	-0.4076	3.4523	-0.3140	-0.4664	3.5779
> 12	0.1708	1.4439	2.8948	-0.1754	1.4853	3.2457
		MSE = 29.769			MSE = 29.846	
Vitamin C (mg)						
< 12	21.1772**	5.0662	83.4455	18.5256**	2.2790	87.5768
12	10.4047	-3.9442	93.0324	12.0317	-5.8663	91.8892
> 12	-3.0199	-5.7923	111.1522**	-3.3088	-10.3268	106.0046
		MSE = 7044.611			MSE = 6978.331	
<u>Total intake adjusted for caloric intake</u>						
Protein (g)						
< 12	-1.9534*	-0.3848	42.2971	-1.8371*	-0.4893	41.9425
12	-1.0956	1.0055	40.4396*	-0.9633	0.7786	40.8011
> 12	-1.3535	-0.1621	40.3519	-0.7932	-0.5048	40.8130
		MSE = 132.811			MSE = 130.257	
Fat (g)						
< 12	-0.0614	-0.6334	43.3833	0.2351	-0.6302	42.8709
12	0.2718	1.0208	41.8126	0.1796	0.9648	42.1149
> 12	-0.6519	-0.5176	40.6003*	-0.7118	-0.5017	41.5841
		MSE = 119.142			MSE = 118.139	
Carbohydrate (g)						
< 12	-0.0487	1.4995	145.6253	-0.5134	1.7837	147.0667
12	-1.1174	-1.3839	151.8144*	-0.7321	-0.7581	150.5483
> 12	-1.0051	0.6608	155.4883**	-0.4832	1.7032	152.0811
		MSE = 1063.738			MSE = 1058.885	
Calcium (mg)						
< 12	-21.0841	-5.8907	700.1316	-9.9955	6.2174	689.0634
12	-64.6270*	-12.1503	722.2179	-59.7656*	0.9100	721.4826
> 12	-49.5124	15.7503	711.2293	-33.4388	49.2706	698.6008
		MSE = 99010.91			MSE = 96292.62	
Iron (mg)						
< 12	3.1907**	0.4074	9.8295	2.7893**	0.2651	9.9584
12	2.4298**	0.4075	10.5002	2.1101**	0.2355	10.6426
> 12	4.9941**	-0.5882	11.0524	4.3411**	-0.7141	11.5332
		MSE = 67.203			MSE = 66.989	

(continued)

Table VI-B-5.12

Maternal Education (yrs)	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total intake adjusted for caloric intake</u>						
Magnesium (mg)						
< 12	-2.4519	-3.1432	162.3602	-2.1668	-2.7042	162.2851
12	-9.1604*	0.4928	164.8404	-7.8658	2.2024	164.2765
> 12	-6.8016	-4.4326	171.2167	-2.4803	-0.5067	167.4873
	MSE = 2746.557			MSE = 2707.144		
Phosphorus (mg)						
< 12	-50.1548**	-24.8713	823.8515	-35.1073*	-13.9562	807.2901
12	-52.6324*	8.3052	804.1823	-47.3989*	17.8150	807.2382
> 12	-55.7572	17.4113	797.8821	-41.0338	37.0890	799.7277
	MSE = 58912.34			MSE = 56820.06		
Vitamin A (IU)						
< 12	741.0891*	639.6274	3346.4790	773.4772*	831.1603*	3257.4199
12	64.8709	101.6650	3882.5197	-24.5313	48.3670	3905.7121
> 12	154.1286	747.9609	4164.9568	-170.1115	712.7291	4376.6403
	MSE = 22791067			MSE = 22842302		
Thiamin (mg)						
< 12	0.0950**	0.0377	0.9596	0.0693*	0.0233	0.9693
12	0.1225**	0.0449	0.9707	0.1025**	0.0286	0.9813
> 12	0.1232	-0.0862	1.0331	0.0860	-0.1054	1.0669
	MSE = 0.211			MSE = 0.211		
Riboflavin (mg)						
< 12	0.0832	0.0663	1.4754	0.1048	0.0962	1.4437
12	-0.0349	0.0001	1.5647	-0.0546	-0.0024	1.5770
> 12	0.0556	0.1178	1.4941	0.0226	0.1428	1.5415
	MSE = 0.644			MSE = 0.658		
Niacin (mg)						
< 12	1.2705**	0.4713	10.5558	0.8783	0.3069	10.7506
12	1.5059**	0.6602	10.6320	1.2015*	0.3600	10.7751
> 12	1.7536	-1.7560	11.6209	1.3169	-2.0611*	11.9383
	MSE = 41.824			MSE = 41.596		
Vitamin B6 (mg)						
< 12	0.0718	0.0739	1.0165	0.0772	0.0748	1.0085
12	0.0827	0.0307	1.0238	0.0873	0.0133	1.0303
> 12	0.1356	-0.1098	1.0833	0.1283	-0.1262	1.1053
	MSE = 0.397			MSE = 0.395		
Vitamin B12 (mcg)						
< 12	0.5236	0.7968*	3.1706	0.6619	1.0417*	2.9353
12	-0.1021	-0.2568	3.4580	-0.2290	-0.3167	3.5659
> 12	0.2150	1.2783	2.9935	-0.0680	1.3172	3.3595
	MSE = 28.299			MSE = 28.339		
Vitamin C (mg)						
< 12	18.9616**	3.3151	83.6279	17.3854**	1.1253	87.1247
12	11.3326	-0.9960	93.1433	13.7028*	-2.9240	91.6520
> 12	-2.1562	-9.0293	113.0814***	-1.1972	-13.6311	108.2405*
	MSE = 6481.128			MSE = 6394.267		
<u>Intake from potential WIC foods</u>						
Calories (kcal)						
< 12	52.3887**	-1.4266	386.7959	57.3809**	-1.0420	375.7076
12	29.9716	22.3514	346.0100*	29.9678	20.9288	355.1832
> 12	25.9377	20.0346	357.7227	22.8055	22.9681	370.6040
	MSE = 53358.23			MSE = 52315.33		

(continued)

Table VI-B-5.12

Maternal Education (yrs)	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Intake from potential WIC foods</u>						
Protein (g)						
< 12	-1.1666	-0.6088	20.1630	-0.6065	-0.3572	19.2954
12	-0.4676	0.7842	17.1385**	-0.3840	0.8912	17.6094
> 12	-2.4511	0.7276	17.7236*	-2.4677	1.1084	18.5432
	MSE = 133.205			MSE = 128.55		
Fat (g)						
< 12	1.1929	-0.3792	19.0680	1.4814	-0.2534	18.3682
12	0.9481	1.0643	16.5867**	0.8453	0.8794	17.1470
> 12	0.5664	1.1345	16.4204*	0.2528	1.1673	17.4486
	MSE = 135.449			MSE = 133.244		
Carbohydrate (g)						
< 12	9.3855**	0.8413	33.9869	9.6329**	0.4570	33.5631
12	4.3100	2.1146	32.4954	4.5732	2.0732	33.0288
> 12	3.6481	1.5288	35.2184	3.9115	1.8760	35.1903
	MSE = 851.865			MSE = 842.093		
Calcium (mg)						
< 12	-15.0993	0.9815	531.0975	-5.5542	8.7722	516.3388
12	-45.4493	-3.8678	510.1915	-43.8845	4.4574	516.5967
> 12	-71.5816	36.7465	516.8573	-67.8093	62.1263	519.0198
	MSE = 127260.5			MSE = 124661.7		
Iron (mg)						
< 12	4.1424**	0.3286	3.6180	3.8367**	0.1416	3.6619
12	3.0556**	0.9163	3.5559	2.7909**	0.7278	3.7711
> 12	5.1735**	-0.0747	4.3687	4.6587**	-0.0978	4.8109
	MSE = 87.638			MSE = 87.264		
Magnesium (mg)						
< 12	1.3503	-1.3886	80.7460	2.7684	-1.0432	78.0467
12	-1.1471	3.2810	71.7418*	-0.8020	4.0764	73.4263
> 12	-9.6603	-1.5413	77.8500	-9.3578	0.3643	80.0878
	MSE = 2673.725			MSE = 2605.117		
Phosphorus (mg)						
< 12	-27.7624	-7.4469	493.0710	-14.7461	-0.5085	474.1817
12	-27.2807	9.3687	440.5362*	-24.5498	15.1410	449.3012
> 12	-65.7332	22.1051	453.8314	-64.2449	36.9740	466.7312
	MSE = 89014.09			MSE = 86407.51		
Vitamin A (IU)						
< 12	527.6240**	94.0470	995.2453	501.7497**	71.5763	984.9095
12	569.3063**	239.8577	873.5081	531.7994**	200.4001	913.3244
> 12	336.0150	-18.3904	1182.2118	235.2858	-24.8673	1272.2578
	MSE = 2229615			MSE = 2224115		
Thiamin (mg)						
< 12	0.1711**	0.0207	0.3429	0.1592**	0.0102	0.3436
12	0.1595**	0.0733	0.3249	0.1492**	0.0629	0.3361
> 12	0.1707*	-0.0142	0.3999	0.1448	-0.0167	0.4213
	MSE = 0.245			MSE = 0.244		
Riboflavin (mg)						
< 12	0.1215*	0.0206	0.8358	0.1263*	0.0231	0.8123
12	0.1311*	0.0704	0.7686	0.1199*	0.0647	0.7896
> 12	0.0777	0.0240	0.8445	0.0482	0.0462	0.8882
	MSE = 0.494			MSE = 0.49		

(continued)

Table VI-B-5.12

Maternal Education (yrs)	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Intake from potential WIC foods</u>						
Niacin (mg)						
< 12	2.1717**	0.2857	2.0912	1.9595**	0.1616	2.1616
12	2.1938**	0.8415	2.1010	2.0196**	0.6992	2.2040
> 12	2.0413	-0.3730	3.0483	1.6815	-0.3762	3.3115
		MSE = 38.249			MSE = 38.192	
Vitamin B6 (mg)						
< 12	0.1552**	0.0308	0.3381	0.1568**	0.0267	0.3216
12	0.2040**	0.0835	0.2644	0.1936**	0.0664	0.2832
> 12	0.1063	-0.0007	0.3562	0.0718	-0.0104	0.4089
		MSE = 0.352			MSE = 0.35	
Vitamin B12 (mcg)						
< 12	0.2959	0.0757	2.0253	0.3281*	0.0864	1.9376
12	0.5017**	0.2532	1.7138	0.4618**	0.2032	1.7885
> 12	0.0232	0.0913	1.9529	-0.0869	0.1077	2.1423
		MSE = 4.268			MSE = 4.244	
Vitamin C (mg)						
< 12	22.6051**	1.4821	34.2786	21.6479**	-0.9630	37.3517
12	12.2149*	6.2355	38.4017	14.2895*	6.0978	36.8580
> 12	12.4858	-5.1948	49.6588	13.9760	-6.6769	43.9400
		MSE = 4701.514			MSE = 4675.89	
Maternal Education (yrs)						
n	Current WIC	Past WIC	Control	Total		
< 12	403	343	348	1,094		
12	264	225	275	764		
> 12	44	69	139	252		
Total	711	637	762	2,111		

*p < 0.05.
 **p < 0.01.
 ***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship.
 See Vol. II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-B-5.13

Mean Dietary Intake and Annual Family Income

Annual Family Income	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Total intake per day						
Calories (kcal)						
3000-6999	39.6684	46.0669	1110.3930	9.0602	28.6755	1109.8769
< 3000	71.0174	-15.2557	1100.7956	58.5248	-27.2667	1070.1200
7000-12999	0.2691	17.4926	1139.2886	-16.3207	11.8479	1163.2924
> 13000	-17.6755	4.9248	1118.9705	-24.7963	1.4404	1163.6344
Missing	-21.3005	-110.9567	1134.8401	-42.5570	-100.1404	1146.4468
		MSE = 194858.1			MSE = 190642.5	
Protein (g)						
3000-6999	-0.3292	1.5504	40.6344	-1.5304	0.7225	40.7675
< 3000	2.8896	2.0647	39.1946	2.5322	1.1573	38.3094
7000-12999	-0.4260	1.5311	41.0663	-0.8020	1.0982	41.9154
> 13000	-1.6061	-1.3484	40.9295	-2.0351	-2.0573	43.0838
Missing	-6.2541*	-5.7655	43.3972	-6.6486*	-5.0179	42.8868
		MSE = 366.54			MSE = 358.194	
Fat (g)						
3000-6999	1.8881	1.1953	41.6881	0.5129	0.2999	41.6887
< 3000	4.6078	0.3977	41.6644	4.1203	0.2520	39.9102
7000-12999	0.0863	1.5306	42.3553	-0.6391	1.0410	43.5451
> 13000	-0.4670	1.7097	41.2496	-0.9271	1.4914	43.8806
Missing	-2.7499	-6.8346	42.9052	-2.7375	-5.9159	42.4181
		MSE = 437.743			MSE = 427.841	
Carbohydrate (g)						
3000-6999	4.3964	9.5934	145.6010	1.3227	8.2516	145.3810
< 3000	2.8734	-6.2894	143.8928	1.5599	-8.0920	141.2097
7000-12999	-2.1479	-1.6339	152.1390	-3.9137	-1.0487	154.1125
> 13000	-2.8846	-2.0979	149.6038	-2.8170	-1.3192	151.9490
Missing	4.4871	-6.6833	146.5887	-0.2085	-6.4970	151.3354
		MSE = 4264.555			MSE = 4190.585	
Calcium (mg)						
3000-6999	-38.1949	-1.3985	715.7015	-47.8085	5.9730	708.6179
< 3000	32.9434	49.4362	642.2886	37.7391	54.1944	626.1074
7000-12999	-41.0064	13.1377	728.5982	-42.3570	20.0202	730.1525
> 13000	5.7235	-15.4509	690.7762	9.8021	-3.5241	702.6978
Missing	-64.6876	-104.6543	681.0485	-55.5551	-69.1403	684.2227
		MSE = 148838.6			MSE = 145386.3	
Iron (mg)						
3000-6999	2.0797*	0.5469	10.5256	1.5927	0.3511	10.5662
< 3000	2.5047	-0.0337	10.3759	2.2590	-0.1873	10.3159
7000-12999	4.3476**	0.7295	9.8236	3.8404**	0.5608	10.1299
> 13000	1.6457	-1.4776	10.3127	1.3311	-1.2827	10.5604
Missing	4.0448**	-0.6364	10.4944	3.2780*	-0.9199	11.2449
		MSE = 80.221			MSE = 80.016	
Magnesium (mg)						
3000-6999	-0.9997	6.9121	162.5939	-4.5088	5.9795	163.1432
< 3000	7.9873	6.3257	150.3448	8.3338	5.4947	147.8224
7000-12999	-3.8819	-4.3098	167.8239	-4.6879	-4.0173	168.6427
> 13000	-10.3653	-2.7545	165.1329	-9.6712	-1.2038	166.6216
Missing	-13.4006	-27.3943*	162.4915	-14.8647	-22.8991	164.4300
		MSE = 6159.234			MSE = 6056.743	
Phosphorus (mg)						
3000-6999	-34.4475	24.7197	802.8072	-49.5754	25.6046	799.9649
< 3000	60.0933	56.8841	742.4722	64.7174	59.7322	722.7583
7000-12999	-39.5143	3.6031	827.2291	-40.1831	3.5877	832.3031
> 13000	-38.3811	-12.7984	791.1284	-39.5315	-8.8240	813.7358
Missing	-134.8136*	-168.0821*	830.2433	-120.7456*	-130.8953*	821.6054
		MSE = 138797.8			MSE = 135385.3	

(continued)

Table VI-B-5.13 (continued)

Annual Family Income	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total intake per day</u>						
Vitamin A (IU)						
3000-6999	292.8542	1017.4637	3472.2692	259.7787	1145.4259	3480.5516
< 3000	110.3413	-170.1285	3955.9160	13.8232	-133.8654	4047.8351
7000-12999	375.4727	-227.6074	3774.2400	293.5461	-180.7058	3723.0710
> 13000	1077.7320	-13.9618	3595.6074	1033.8382	12.3777	3494.6011
Missing	949.1633	1455.5167	3665.5260	854.0094	1609.5276	3767.3598
	MSE = 24252150			MSE = 24356806		
Thiamin (mg)						
3000-6999	0.0820	0.0771	0.9717	0.0448	0.0541	0.9790
< 3000	0.1493	0.0236	0.9729	0.1286	0.0029	0.9622
7000-12999	0.1211*	0.0182	0.9782	0.0869	0.0068	1.0036
> 13000	0.1011	-0.1197	0.9671	0.0802	-0.1194	0.9975
Missing	0.1634	0.0082	0.9395	0.1113	-0.0089	0.9783
	MSE = 0.33			MSE = 0.329		
Riboflavin (mg)						
3000-6999	-0.0186	0.1239	1.5210	-0.0546	0.1280	1.5205
< 3000	0.1679	0.1812	1.3936	0.1756	0.2057	1.3607
7000-12999	0.0756	0.0294	1.5161	0.0578	0.0291	1.5193
> 13000	0.0553	-0.2012	1.5096	0.0435	-0.1844	1.5402
Missing	0.1952	-0.0238	1.4758	0.2049	0.0223	1.5002
	MSE = 0.918			MSE = 0.914		
Niacin (mg)						
3000-6999	1.4239	1.2148	10.3789	0.8841	0.8529	10.5158
< 3000	1.3032	0.1669	10.7396	0.8718	-0.1751	10.7338
7000-12999	1.6768*	0.0956	10.7066	1.1727	-0.0988	11.0449
> 13000	1.4401	-1.4059	10.7993	1.1528	-1.4490	11.1893
Missing	1.4037	-0.5096	11.3363	0.6366	-0.8280	11.9374
	MSE = 59.393			MSE = 58.933		
Vitamin B6 (mg)						
3000-6999	0.0817	0.1051	1.0146	0.0604	0.0842	1.0297
< 3000	0.1648	0.0926	0.9416	0.1577	0.0803	0.9398
7000-12999	0.0791	-0.0027	1.0507	0.0709	-0.0181	1.0561
> 13000	0.1079	-0.0522	1.0088	0.1079	-0.0573	1.0241
Missing	0.0681	-0.0115	1.0582	0.0527	-0.0112	1.0621
	MSE = 0.545			MSE = 0.545		
Vitamin B12 (mcg)						
3000-6999	0.2302	0.9429	3.0724	0.1400	1.0685	3.0413
< 3000	0.8153	1.1246	2.6644	0.7132	1.2602	2.6305
7000-12999	0.5380	-0.2444	3.4822	0.4440	-0.3256	3.5108
> 13000	0.7392	-0.0354	2.7929	0.6328	-0.0120	2.9008
Missing	-0.4952	1.0142	3.9528	-0.3734	1.3363	3.9025
	MSE = 29.789			MSE = 29.89		
Vitamin C (mg)						
3000-6999	12.1885	-3.7055	94.0164	13.4926	-5.7616	94.1143
< 3000	8.6705	-1.3508	87.0139	6.9214	-7.2806	88.5194
7000-12999	11.5431	-0.7048	92.6499	12.6023	0.4169	93.0130
> 13000	9.6317	-12.8328	94.1591	13.9542	-14.2700	92.1530
Missing	26.9875	20.3908	84.2036	19.6062	13.7245	89.1027
	MSE = 7091.154			MSE = 6992.327		
<u>Total intake adjusted for caloric intake</u>						
Protein (g)						
3000-6999	-1.7024	-0.0443	41.3891	-1.8438	-0.2695	41.5395
< 3000	0.4311	2.5928	40.2815	0.5076	2.1006	40.4568
7000-12999	-0.4354	0.9256	40.8207	-0.2374	0.6884	40.8396
> 13000	-0.9942	-1.5189	41.3873	-1.1773	-2.1071	41.9961
Missing	-5.5167**	-1.9244	43.3056	-5.1764**	-1.5536	42.3937
	MSE = 133.086			MSE = 130.104		

(continued)

Table VI-B-5.13 (continued)

Annual Family Income	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total intake adjusted for caloric intake</u>						
Fat (g)						
3000-6999	0.2854	-0.6659	42.5690	0.1477	-0.8560	42.5883
< 3000	1.7385	1.0141	42.9330	1.7612	1.3511	42.4124
7000-12999	0.0755	0.8238	42.0686	0.0188	0.5634	42.2916
> 13000	0.2472	1.5107	41.7838	0.0724	1.4334	42.6132
Missing	-1.8893	-2.3515	42.7983	-1.0220	-1.8793	41.8436
	MSE = 119.706			MSE = 118.137		
Carbohydrate (g)						
3000-6999	-0.6832	3.6945	148.3926	0.1609	4.5745	148.2427
< 3000	-6.2205	-4.3359	147.9134	-5.9449	-4.5955	149.1696
7000-12999	-2.1824	-3.8739	151.2306	-1.8209	-2.5680	150.1246
> 13000	-0.6213	-2.7285	151.2971	0.3627	-1.5039	147.9173
Missing	7.2146	7.5249	146.2498	5.2487	6.3442	149.5077
	MSE = 1069.936			MSE = 1056.269		
Calcium (mg)						
3000-6999	-58.2977	-24.7438	726.7495	-52.3995	-8.5573	719.9263
< 3000	-3.0462	57.1673	658.2003	8.0836	68.0109	657.5613
7000-12999	-41.1428	4.2730	725.0028	-34.0870	14.0167	714.3943
> 13000	14.6810	-17.9466	697.4775	22.3669	-4.2540	686.7663
Missing	-53.8931	-48.4248	679.7075	-33.9907	-18.3973	677.0005
	MSE = 98843.1			MSE = 96483.09		
Iron (mg)						
3000-6999	1.7557	0.1707	10.7036	1.5179	0.1144	10.7504
< 3000	1.9247	0.0908	10.6324	1.7759	0.0378	10.8283
7000-12999	4.3454**	0.5866	9.7657	3.9751**	0.4630	9.8732
> 13000	1.7900	-1.5178	10.4207	1.5358	-1.2946	10.3008
Missing	4.2188**	0.2698	10.4728	3.6293**	-0.0932	11.1273
	MSE = 67.256			MSE = 67.055		
Magnesium (mg)						
3000-6999	-6.2503	0.8147	165.4795	-5.7094	2.1794	166.1006
< 3000	-1.4127	8.3449	154.5007	0.5781	9.1080	156.0484
7000-12999	-3.9175	-6.6251	166.8848	-2.5251	-5.5873	164.5216
> 13000	-8.0258	-3.4064	166.8831	-6.3852	-1.3947	162.4551
Missing	-10.5812	-12.7079	162.1413	-9.2251	-9.6285	162.5412
	MSE = 2746.732			MSE = 2710.08		
Phosphorus (mg)						
3000-6999	-59.8847*	-4.8204	816.7869	-55.3933*	7.1910	814.2955
< 3000	14.5538	66.6667	762.6061	27.1364	77.2412*	762.6182
7000-12999	-39.6868	-7.6139	822.6797	-29.7030	-4.0202	812.3336
> 13000	-27.0467	-15.9564	799.6078	-23.6088	-9.7489	793.5466
Missing	-121.1547**	-96.9317*	828.5464	-93.4182*	-66.5914	812.4531
	MSE = 58701.2			MSE = 56803.21		
Vitamin A (IU)						
3000-6999	183.1184	890.0276	3532.5776	234.3273	1064.8724	3543.2432
< 3000	-86.1160	-127.9264	4042.7738	-150.5814	-57.2694	4222.2096
7000-12999	374.7284	-275.9976	3754.6137	339.3933	-213.9882	3635.7108
> 13000	1126.6283	-27.5853	3632.1876	1103.4946	8.3315	3406.2801
Missing	1008.0873	1762.4589*	3658.2056	973.5582	1890.8365*	3727.3212
	MSE = 22771868			MSE = 22863468		
Thiamin (mg)						
3000-6999	0.0510	0.0410	0.9888	0.0376	0.0315	0.9965
< 3000	0.0937	0.0355	0.9975	0.0825	0.0244	1.0111
7000-12999	0.1209**	0.0045	0.9726	0.0997*	-0.0025	0.9791
> 13000	0.1149	-0.1235	0.9774	0.0998	-0.1206	0.9728
Missing	0.1800*	0.0950	0.9374	0.1448	0.0700	0.9670
	MSE = 0.211			MSE = 0.211		

(continued)

Table VI-B-5.13 (continued)

Annual Family Income	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total intake adjusted for caloric intake</u>						
Riboflavin (mg)						
3000-6999	-0.0640	0.0710	1.5460	-0.0651	0.0947	1.5464
< 3000	0.0865	0.1987	1.4296	0.1076	0.2374	1.4329
7000-12999	0.0753	0.0093	1.5079	0.0768	0.0154	1.4832
> 13000	0.0756	-0.2068	1.5248	0.0723	-0.1861	1.5036
Missing	0.2196	0.1034	1.4727	0.2543	0.1387	1.4836
		MSE = 0.662			MSE = 0.657	
Niacin (mg)						
3000-6999	1.0476	0.7779	10.5857	0.7979	0.5801	10.7281
< 3000	0.6297	0.3116	11.0374	0.3150	0.0843	11.3244
7000-12999	1.6742**	-0.0703	10.6393	1.3280*	-0.2115	10.7491
> 13000	1.6077	-1.4526	10.9247	1.3887	-1.4627	10.8901
Missing	1.6057	0.5427	11.3112	1.0415	0.1248	11.8018
		MSE = 41.887			MSE = 41.698	
Vitamin B6 (mg)						
3000-6999	0.0472	0.0651	1.0336	0.0524	0.0588	1.0495
< 3000	0.1031	0.1059	0.9689	0.1059	0.1044	0.9948
7000-12999	0.0789	-0.0179	1.0445	0.0853	-0.0285	1.0286
> 13000	0.1232	-0.0565	1.0203	0.1299	-0.0586	0.9962
Missing	0.0866	0.0850	1.0559	0.0904	0.0775	1.0495
		MSE = 0.398			MSE = 0.396	
Vitamin B12 (mcg)						
3000-6999	0.1181	0.8128	3.1340	0.1141	0.9865	3.1052
< 3000	0.6147	1.1677	2.7531	0.5458	1.3382	2.8080
7000-12999	0.5373	-0.2938	3.4622	0.4906	-0.3595	3.4219
> 13000	0.7891	-0.0493	2.8303	0.7037	-0.0162	2.8109
Missing	-0.4350	1.3277	3.9453	-0.2517	1.6227	3.8618
		MSE = 28.246			MSE = 28.345	
Vitamin C (mg)						
3000-6999	10.0440	-6.1959	95.1950	12.9876	-7.3598	95.3580
< 3000	4.8313	-0.5261	88.7113	3.6597	-5.7610	91.9790
7000-12999	11.5285	-1.6505	92.2664	13.5119	-0.2434	91.2798
> 13000	10.5872	-13.0991	94.8739	15.3361	-14.3503	90.4007
Missing	28.1390*	26.3890	84.0605	21.9780	19.3056	88.3084
		MSE = 6524.82			MSE = 6403.272	
<u>Intake from potential WIC foods</u>						
Calories (kcal)						
3000-6999	23.3706	9.2205	380.5190	18.7652	7.0392	379.8252
< 3000	70.0763*	32.9232	349.2390	76.7261*	32.9935	340.2039
7000-12999	58.6052**	32.5826	365.3945	60.4610**	26.5604	370.4078
> 13000	50.5584	2.3084	342.1380	46.6077	0.7181	357.1973
Missing	18.8047	-91.9192*	393.3563	32.4708	-75.0731	373.7671
		MSE = 53606.15			MSE = 52272.93	
Protein (g)						
3000-6999	-1.3728	0.3911	19.0667	-1.6052	0.3649	19.0444
< 3000	0.8344	1.7396	17.2256	1.3827	1.9299	16.5915
7000-12999	-0.5902	0.8176	18.9719	-0.3575	0.6132	19.1096
> 13000	0.8846	0.2782	17.0452	0.6646	0.2238	17.9168
Missing	-3.2534	-5.4168**	20.2801	-2.0747	-4.0013*	18.8604
		MSE = 134.029			MSE = 128.305	
Fat (g)						
3000-6999	0.7625	0.2690	18.2282	0.4360	0.1279	18.2288
< 3000	2.5048	1.9976	16.5590	2.5792	1.8968	16.0970
7000-12999	1.5268	1.2779	17.7422	1.5427	0.8739	18.0607
> 13000	1.5484	1.2731	16.0167	1.2090	1.2083	17.0124
Missing	-0.4095	-5.2759**	20.0372	0.4443	-4.2790*	18.8767
		MSE = 136.219			MSE = 132.73	

(continued)

Table VI-B-5.13 (continued)

Annual Family Income	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Intake from potential WIC foods</u>						
Carbohydrate (g)						
3000-6999	3.9100	1.3750	35.0876	3.7444	1.0325	34.9404
< 3000	9.5056*	2.4536	32.2517	10.5679*	2.3613	31.4778
7000-12999	9.3462**	3.9249	33.1983	9.6714**	3.6406	33.6144
> 13000	8.0679	-3.0772	33.0230	8.1738	-3.4422	33.8224
Missing	5.3461	-6.2079	33.8687	5.7600	-5.5454	32.8683
		MSE = 854.091			MSE = 843.455	
Calcium (mg)						
3000-6999	-44.7370	3.1944	535.5427	-47.8997	10.5555	530.2865
< 3000	-5.3879	63.4612	467.0508	4.4301	67.3413	454.4432
7000-12999	-26.5929	18.4197	541.4636	-23.3689	20.1627	541.9557
> 13000	30.9242	-19.7400	485.6189	34.1437	-11.7921	496.3962
Missing	-57.6278	-105.2943	518.8040	-37.6939	-70.6525	502.9913
		MSE = 127006.2			MSE = 124430.3	
Iron (mg)						
3000-6999	2.4407*	0.3355	4.2349	2.2215*	0.1924	4.2253
< 3000	4.1013**	-0.3534	4.1783	4.0989**	-0.3138	4.1950
7000-12999	4.8011**	1.1325	3.3438	4.4907**	0.9733	3.5714
> 13000	2.7433	-0.5229	3.4843	2.4401	-0.3612	3.5952
Missing	4.1679**	-0.2915	3.7183	3.7808*	-0.5512	3.9977
		MSE = 87.789			MSE = 87.391	
Magnesium (mg)						
3000-6999	-1.4478	3.7721	78.1359	-2.6897	3.3608	78.2333
< 3000	2.2973	7.1074	70.2022	4.6327	7.7694	68.0881
7000-12999	2.9505	1.0809	78.1769	3.3575	0.2829	78.7876
> 13000	2.6545	-0.6994	73.7943	1.9068	-0.6977	76.3303
Missing	-8.9102	-22.5385*	81.4809	-5.1172	-17.5131	77.2022
		MSE = 2681.263			MSE = 2604.738	
Phosphorus (mg)						
3000-6999	-41.5413	10.5377	478.5193	-45.5957	13.4738	476.1233
< 3000	6.7596	53.5086	423.8040	19.6772	58.4790	409.6636
7000-12999	-18.8022	15.9481	479.3503	-13.2660	13.6272	480.6609
> 13000	17.8246	-6.6849	433.4714	16.8781	-3.9027	449.1888
Missing	-81.2660	-123.7883*	489.7927	-54.0866	-88.7875	462.8336
		MSE = 89115.5			MSE = 86202.9	
Vitamin A (IU)						
3000-6999	364.6075	134.1862	1047.7899	348.9473*	115.3871	1053.5346
< 3000	702.3589**	118.1613	999.8355	700.5072**	123.9925	1006.7478
7000-12999	469.4786**	148.4229	989.7167	445.4133**	140.4634	998.8906
> 13000	675.1733**	-70.7395	875.0481	650.6826**	-61.1219	886.8313
Missing	563.4745*	19.7113	971.9054	523.5115*	-14.4645	998.5128
		MSE = 2232665			MSE = 2228983	
Thiamin (mg)						
3000-6999	0.1028	0.0408	0.3670	0.0946	0.0320	0.3674
< 3000	0.1947*	0.0415	0.3391	0.1948*	0.0360	0.3400
7000-12999	0.1890**	0.0422	0.3451	0.1784**	0.0389	0.3530
> 13000	0.1968*	-0.0464	0.3260	0.1895*	-0.0441	0.3325
Missing	0.1712*	-0.0101	0.3382	0.1499	-0.0251	0.3525
		MSE = 0.245			MSE = 0.244	
Riboflavin (mg)						
3000-6999	0.0496	0.0381	0.8488	0.0396	0.0382	0.8446
< 3000	0.2192*	0.1109	0.7522	0.2297*	0.1169	0.7398
7000-12999	0.1210	0.0620	0.8376	0.1153	0.0583	0.8430
> 13000	0.2556*	-0.0543	0.7327	0.2454*	-0.0430	0.7536
Missing	0.0752	-0.1070	0.8223	0.0879	-0.0804	0.8117
		MSE = 0.493			MSE = 0.489	

(continued)

Table VI-B-5.13 (continued)

Annual Family Income	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Intake from potential WIC foods</u>						
Niacin (mg)						
3000-6999	1.5664*	0.5539	2.3728	1.4518*	0.4336	2.3954
< 3000	2.4781**	0.2515	2.1961	2.3952*	0.2184	2.2924
7000-12999	2.3249**	0.3960	2.2491	2.1022**	0.3657	2.3391
> 13000	2.4970*	-0.4959	2.1875	2.3479*	-0.4072	2.1697
Missing	2.0145*	0.1605	2.2515	1.6522	-0.1273	2.6000
	MSE = 38.367			MSE = 38.272		
Vitamin B6 (mg)						
3000-6999	0.1256	0.0626	0.3294	0.1194	0.0510	0.3331
< 3000	0.2656**	0.0687	0.2943	0.2711**	0.0729	0.2914
7000-12999	0.1632**	0.0521	0.3144	0.1565**	0.0428	0.3207
> 13000	0.2460**	-0.0284	0.2777	0.2297*	-0.0311	0.2929
Missing	0.0935	-0.0405	0.3594	0.0942	-0.0456	0.3502
	MSE = 0.352			MSE = 0.351		
Vitamin B12 (mcg)						
3000-6999	0.1934	0.1108	1.9769	0.1667	0.0894	1.9743
< 3000	0.7927*	0.3755	1.7610	0.8206**	0.4016	1.7172
7000-12999	0.2518	0.2286	1.9485	0.2390	0.2027	1.9707
> 13000	0.8471*	-0.1272	1.6553	0.8016*	-0.1297	1.7460
Missing	0.1069	-0.2048	2.0643	0.1671	-0.1409	1.9926
	MSE = 4.267			MSE = 4.243		
Vitamin C (mg)						
3000-6999	10.4744	1.1352	41.1418	12.5081	0.7131	41.1978
< 3000	7.9760	-0.0070	42.6571	8.6038	-2.9218	43.9948
7000-12999	22.4451**	1.8929	35.9919	24.5144**	3.0431	34.8663
> 13000	15.6488	-5.8232	42.0201	18.9802	-7.4453	39.5859
Missing	29.8112**	5.2651	30.4415	26.2842*	0.4071	32.9994
	MSE = 4724.126			MSE = 4685.183		
Annual Family Income n	Current WIC	Past WIC	Control	Total		
3000-6999	267	237	216	721		
< 3000	105	94	71	270		
7,000-12,999	210	187	270	667		
> 13000	55	61	132	248		
Missing	74	58	74	206		
Total	711	637	763	2,111		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship.
See Vol. II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-B-5.14

Mean Dietary Intake and Maternal Marital Status

Marital Status	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total intake per day</u>						
Calories (kcal)						
Other	15.7226	-32.9343**	1161.6153	5.0158	-39.9141	1156.9030
Married	9.4292	24.8558**	1107.9663	-5.6532	27.3733	1119.1508
		MSE = 19425.1			MSE = 190187.8	
Protein (g)						
Other	0.8378	-0.2069	41.7920	0.4000	-0.7150	41.5605
Married	-2.1309	0.8214	40.6425	-2.4737*	0.7352	41.1380
		MSE = 365.029			MSE = 357.3	
Fat (g)						
Other	1.3800	-1.2254	43.3853	1.2209	-1.5319	42.9950
Married	0.4702	1.3007	41.3778	-0.4255	1.1137	42.0656
		MSE = 437.298			MSE = 427.2	
Carbohydrate (g)						
Other	-0.6604	-5.2855	153.5481	-2.2351	-5.6888	153.8333
Married	0.3281	3.3347	146.4911	-0.6151	4.9543	146.6407
		MSE = 4256.225			MSE = 4186.01	
Calcium (mg)						
Other	32.3833	-6.1747	684.9506	43.7288	8.5001	701.3328
Married	-69.5276**	9.3294	714.2568	-74.5913**	19.5841	696.8450
		MSE = 148563.4			MSE = 144618.8	
Iron (mg)						
Other	1.7112*	0.0510	10.7993	1.4364	-0.0139	10.9357
Married	3.8203**	0.1826	9.9866	3.2395**	0.0050	10.2105
		MSE = 80.065			MSE = 79.84	
Magnesium (mg)						
Other	4.7863	-4.3072	163.0498	4.5310	-3.6076	165.5255
Married	-9.7061	0.8941	164.0003	-10.5338*	2.3928	162.2048
		MSE = 6157.975			MSE = 6042.5	
Phosphorus (mg)						
Other	7.1960	-12.0464	803.1949	13.5775	-3.3295	815.1171
Married	-66.6131**	8.5301	807.8031	-71.0968**	15.6682	796.3537
		MSE = 138977.1			MSE = 135114.5	
Vitamin A (IU)						
Other	264.5530	71.8370	3748.7394	199.6429	151.3112	3726.4323
Married	495.4618	678.7616*	3630.5858	387.9103	708.4588*	3667.9067
		MSE = 24256156			MSE = 24344112	
Thiamin (mg)						
Other	0.0457	0.0072	1.0279	0.0225	-0.0044	1.0396
Married	0.1437**	0.0179	0.9466	0.1094**	0.0078	0.9609
		MSE = 0.329			MSE = 0.33	
Riboflavin (mg)						
Other	0.1056	0.0093	1.4981	0.1185	0.0310	1.5225
Married	0.0249	0.0958	1.5024	-0.0167	0.0971	1.4919
		MSE = 0.918			MSE = 0.91	
Niacin (mg)						
Other	0.2700	-0.1242	11.4805	-0.1273	-0.3579	11.5380
Married	2.0419**	0.2846	10.3739	1.5566**	0.1205	10.6806
		MSE = 59.152			MSE = 58.75	
Vitamin B6 (mg)						
Other	0.0350	0.0458	1.0434	0.0249	0.0288	1.0461
Married	0.1210*	0.0261	1.0158	0.1087*	0.0184	1.0263
		MSE = 0.543			MSE = 0.54	

(continued)

Table VI-B-5.14 (continued)

Marital Status	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total intake per day</u>						
Vitamin B12 (mcg)						
Other	0.4631	0.2107	3.2309	0.4672	0.3519	3.2491
Married	0.2606	0.7618*	3.2130	0.0879	0.7454*	3.2276
		MSE = 29.818			MSE = 29.89	
Vitamin C (mg)						
Other	2.5316	-1.6819	98.2260	0.5715	-4.8856	96.6306
Married	17.5429**	-4.0022	89.4021	20.5595**	-3.3729	90.4688
		MSE = 7061.21			MSE = 6968.79	
<u>Total intake adjusted for caloric intake</u>						
Protein (g)						
Other	0.2941	0.9321	40.7745	0.2264	0.6667	40.7052
Married	-2.4570**	-0.0382	41.4805	-2.2780**	-0.2124	41.5895
		MSE = 132.731			MSE = 129.92	
Fat (g)						
Other	0.7443	0.1061	42.1959	1.0186	0.0778	41.9984
Married	0.0890	0.2958	42.3573	-0.1975	0.0097	42.5916
		MSE = 119.849			MSE = 118.32	
Carbohydrate (g)						
Other	-2.6734	-1.0690	149.7814	-2.8778	-0.5739	150.6669
Married	-0.8791	0.1525	149.5929	0.1093	1.4465	148.3121
		MSE = 1072.811			MSE = 1056.4	
Calcium (mg)						
Other	24.3942	10.5603	670.0007	41.1853	28.7407	688.8027
Married	-74.3189**	-3.3006	726.5676*	-71.7246**	5.7029	703.4592
		MSE = 98455.13			MSE = 95846.47	
Iron (mg)						
Other	1.5825*	0.3205	10.5585	1.3947	0.3173	10.7306
Married	3.7431**	-0.0208	10.1848	3.2864**	-0.2222	10.3188
		MSE = 67.088			MSE = 66.84	
Magnesium (mg)						
Other	2.7009	0.0612	159.1474	3.8647	1.6944	162.2433
Married	-10.9567**	-2.4027	167.2138	-9.7829**	-1.2433	163.9374
		MSE = 2741.814			MSE = 2702.72	
Phosphorus (mg)						
Other	-2.9128	9.1287	784.2784	10.3491	22.3607	799.2134
Married	-72.6755**	-7.4508	823.3802*	-67.4582**	-1.9503	804.7488
		MSE = 58705.2			MSE = 56576.02	
Vitamin A (IU)						
Other	221.4119	162.2051	3668.0103	185.6059	263.0114	3657.2834
Married	469.5892	610.5602	3697.0636	403.7307	631.8540	3704.4080
		MSE = 22802505			MSE = 22876205	
Thiamin (mg)						
Other	0.0334	0.0330	1.0049	0.0185	0.0271	1.0200
Married	0.1363**	-0.0016	0.9656	0.1139**	-0.0138	0.9712
		MSE = 0.211			MSE = 0.21	
Riboflavin (mg)						
Other	0.0876	0.0471	1.4644	0.1126	0.0775	1.4938
Married	0.0141	0.0673	1.5301	-0.0101	0.0653	1.5071
		MSE = 0.663			MSE = 0.66	
Niacin (mg)						
Other	0.1210	0.1879	11.2017	-0.1752	0.0229	11.3022
Married	1.9526**	0.0490	10.6035	1.6105**	-0.1407	10.8051
		MSE = 41.728			MSE = 41.52	

(continued)

Table VI-B-5.14 (continued)

Marital Status	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total intake adjusted for caloric intake</u>						
Vitamin B6 (mg)						
Other	0.0213	0.0745	1.0177	0.0205	0.0643	1.0241
Married	0.1128**	0.0044	1.0369	0.1138**	-0.0060	1.0379
		MSE = 0.396			MSE = 0.4	
Vitamin B12 (mcg)						
Other	0.4190	0.3030	3.1485	0.4530	0.4655	3.1788
Married	0.2342	0.6922	3.2809	0.1040	0.6675	3.2647
		MSE = 28.307			MSE = 28.36	
Vitamin C (mg)						
Other	1.6864	0.0884	96.6445	0.2924	-2.6647	95.2557
Married	17.0361**	-5.3383	90.7044	20.8741**	-4.8960	91.1946
		MSE = 6503.018			MSE = 6379.87	
<u>Intake from potential WIC foods</u>						
Calories (kcal)						
Other	47.8076*	-8.8990	383.4521	52.9098**	-7.0122	388.5332
Married	38.0462*	22.2649	360.0616	38.3889*	20.7329	355.5376
		MSE = 53614.43			MSE = 52360.33	
Protein (g)						
Other	0.5434	-0.3089	18.8653	0.9499	-0.0433	19.1932
Married	-1.7422*	0.5996	18.5351	-1.5652*	0.6745	18.0973
		MSE = 133.895			MSE = 128.42	
Fat (g)						
Other	1.4721	-0.6113	18.4869	1.6684	-0.5892	18.5519
Married	1.0017	1.1239	17.3681	0.8570	0.9873	17.3588
		MSE = 136.249			MSE = 132.85	
Carbohydrate (g)						
Other	7.4488**	-0.6151	35.5916	7.9407**	-0.4204	36.5795
Married	5.9597**	2.0932	32.9019	6.5764**	2.1335	31.9130
		MSE = 852.49			MSE = 843.12	
Calcium (mg)						
Other	29.8026	1.0248	507.2446	44.3693	14.8017	521.4477
Married	-66.8782**	13.8469	526.7031	-65.5998**	21.0049	508.9249
		MSE = 126836			MSE = 124134.3	
Iron (mg)						
Other	2.4067**	0.2246	4.2881	2.3172**	0.1888	4.4832
Married	4.4821**	0.3673	3.5050	4.1140**	0.1529	3.5844
		MSE = 87.549			MSE = 87.28	
Magnesium (mg)						
Other	4.8393	-2.4205	78.3890	6.1894	-1.0846	81.0661
Married	-4.1023	2.4957	76.4161	-3.3591	2.8016	73.7911
		MSE = 2678.165			MSE = 2602.4	
Phosphorus (mg)						
Other	11.5949	-2.0644	464.5575	23.7861	7.6247	476.4870
Married	-52.6264**	12.4417	468.0715	-48.5879*	16.3286	453.1959
		MSE = 89125.37			MSE = 86199.33	
Vitamin A (IU)						
Other	389.3579**	130.2241	1048.5493	391.8369**	124.4220	1090.5287
Married	572.8757**	82.9610	959.6590	531.6263**	58.6248	953.4553
		MSE = 2228586			MSE = 2226670	
Thiamin (mg)						
Other	0.1147**	0.0325	0.3725	0.1125**	0.0306	0.3908
Married	0.1840**	0.0188	0.3363	0.1744**	0.0115	0.3306
		MSE = 0.244			MSE = 0.24	

(continued)

Table VI-B-5.14 (continued)

Marital Status	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Intake from potential WIC foods</u>						
Riboflavin (mg)						
Other	0.1315*	0.0417	0.8187	0.1476*	0.0535	0.8480
Married	0.1105*	0.0331	0.8110	0.0971*	0.0299	0.7912
		MSE = 0.494			MSE = 0.49	
Niacin (mg)						
Other	1.3661*	0.3365	2.5267	1.2829*	0.3048	2.7863
Married	2.4789**	0.2231	2.1631	2.2826**	0.1188	2.1157
		MSE = 38.204			MSE = 38.13	
Vitamin B6 (mg)						
Other	0.1301*	0.0443	0.3413	0.1318*	0.0418	0.3613
Married	0.1858**	0.0338	0.3040	0.1775**	0.0220	0.2974
		MSE = 0.352			MSE = 0.35	
Vitamin B12 (mcg)						
Other	0.3595*	0.1624	1.9514	0.4004*	0.1788	2.0135
Married	0.3444*	0.1114	1.8789	0.3089*	0.0864	1.8445
		MSE = 4.271			MSE = 4.25	
Vitamin C (mg)						
Other	8.8994	-1.3076	44.3526	9.0141	-2.8019	44.4713
Married	19.7796**	0.8972	36.2131	22.7552**	1.5086	35.3449
		MSE = 4707.776			MSE = 4668.46	
Marital Status n	Current WIC	Past WIC	Control	Total		
Other	299	296	222	817		
Married	412	341	541	1,294		
Total	711	637	763	2,111		

*p < 0.05.
 **p < 0.01.
 ***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship.
 See Vol. II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-B-5.15

Mean Dietary Intake and Presence of Father Figure

Father Present	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total intake per day</u>						
Calories (kcal)						
Absent	7.5087	-24.5610	1161.4363	-3.5336	-27.9379	1153.6848
Present	14.8462	15.6898	1111.4012	0.3289	13.9674	1123.0917
		MSE = 194444.5			MSE = 190393.4	
Protein (g)						
Absent	0.0773	0.5184	41.8895	-0.4027	0.0810	41.7492
Present	-1.5009	0.2546	40.6834	-1.8020	0.0517	41.0760
		MSE = 365.655			MSE = 357.95	
Fat (g)						
Absent	1.0044	-0.6325	43.6573	0.7822	-0.8319	43.6785
Present	0.6665	0.6435	41.4187	-0.0517	0.3893	41.7820
		MSE = 437.391			MSE = 427.64	
Carbohydrate (g)						
Absent	-0.7726	-4.9350	152.3477	-2.1611	-4.6413	150.6802
Present	0.7050	2.8849	147.3155	-0.6544	3.6215	148.5986
		MSE = 4259.907			MSE = 4187.52	
Calcium (mg)						
Absent	37.5566	33.3256	670.4628	51.7208	55.1907	689.3350
Present	-61.6012*	-15.3065	717.0523	-66.9586**	-6.2243	700.0279
		MSE = 148847			MSE = 144862	
Iron (mg)						
Absent	1.1986	0.0460	10.9959	0.9348	0.0266	11.0796
Present	3.9392**	0.1510	9.9748	3.3764**	-0.0459	10.2177
		MSE = 79.922			MSE = 79.68	
Magnesium (mg)						
Absent	3.3817	-1.8638	160.8735	3.6098	-0.2042	161.8555
Present	-7.1832	-0.6774	164.6259	-8.7275	-0.0045	164.0868
		MSE = 6169.582			MSE = 6055.42	
Phosphorus (mg)						
Absent	6.4588	16.4454	787.8739	12.7330	29.3271	800.8544
Present	-56.5248*	-7.8886	812.3883	-62.3532**	-3.4814	802.9148
		MSE = 139262.4			MSE = 135464	
Vitamin A (IU)						
Absent	304.1013	570.7684	3557.6414	257.7150	674.8568	3525.2044
Present	514.8168	350.5057	3699.4110	405.1063	378.3572	3732.8547
		MSE = 24262522			MSE = 24351972	
Thiamin (mg)						
Absent	0.0524	0.0392	1.0051	0.0284	0.0275	1.0081
Present	0.1401**	0.0075	0.9591	0.1029**	-0.0061	0.9797
		MSE = 0.33			MSE = 0.33	
Riboflavin (mg)						
Absent	0.1092	0.0937	1.4530	0.1211	0.1181	1.4805
Present	0.0421	0.0447	1.5165	-0.0006	0.0448	1.5093
		MSE = 0.918			MSE = 0.91	
Niacin (mg)						
Absent	0.1890	0.3672	11.2108	-0.2130	0.1158	11.1144
Present	2.0596**	0.0633	10.5298	1.5392**	-0.1454	10.9222
		MSE = 59.103			MSE = 58.63	
Vitamin B6 (mg)						
Absent	0.0438	0.1031	1.0010	0.0277	0.0802	0.9944
Present	0.1233**	0.0060	1.0311	0.1081*	-0.0051	1.0495
		MSE = 0.543			MSE = 0.54	

(continued)

Table VI-B-5.15 (continued)

Father Present	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total intake per day</u>						
Vitamin B12 (mcg)						
Absent	0.2951	0.4179	3.1304	0.2752	0.5525	3.1865
Present	0.4111	0.5949	3.2458	0.2374	0.5748	3.2571
		MSE = 29.832			MSE = 29.91	
Vitamin C (mg)						
Absent	5.2080	-0.4522	96.1274	3.0520	-3.9573	91.8054
Present	15.5349**	-3.3631	90.6324	18.1159**	-3.2829	93.0328
		MSE = 7070.547			MSE = 6970.71	
<u>Total intake adjusted for calorie intake</u>						
Protein (g)						
Absent	-0.1825	1.3684	40.8775	-0.2803	1.0487	41.0048
Present	-2.0147**	-0.2884	41.4029	-1.8134*	-0.4321	41.3912
		MSE = 132.871			MSE = 130.04	
Fat (g)						
Absent	0.7009	0.3603	42.4754	0.9247	0.2948	42.8118
Present	0.0664	0.0094	42.2591	-0.0650	-0.1740	42.1490
		MSE = 119.796			MSE = 118.2	
Carbohydrate (g)						
Absent	-1.7342	-1.7897	148.6028	-1.7082	-1.0605	147.9257
Present	-1.1962	0.8756	149.9782	-0.6965	1.8313	149.7653
		MSE = 1071.512			MSE = 1058.43	
Calcium (mg)						
Absent	33.7361	45.8224	655.5840	53.5170	69.3925*	678.4105
Present	-69.1551**	-23.2896	727.6318**	-67.1258**	-13.3244	704.6548
		MSE = 98554.92			MSE = 95764.67	
Iron (mg)						
Absent	1.1373	0.2466	10.7571	0.9641	0.2579	10.9016
Present	3.8179**	0.0228	10.1447	3.3737**	-0.1616	10.2930
		MSE = 66.983			MSE = 66.73	
Magnesium (mg)						
Absent	2.3845	1.3980	156.9900	4.0798	3.5116	158.9972
Present	-9.1548**	-2.7610	167.3873*	-8.7712**	-1.8622	165.2974
		MSE = 2741.504			MSE = 2705.93	
Phosphorus (mg)						
Absent	1.6250	32.2567	769.0488	15.0105	47.3343*	787.0026
Present	-66.0821**	-17.9890	825.7737**	-62.5652**	-12.4840	808.7815
		MSE = 58707.89			MSE = 56631.28	
Vitamin A (IU)						
Absent	283.4536	638.3070	3477.2296	267.6311	753.2580	3464.8951
Present	473.9924	307.3615	3756.5873	404.1835	339.1609	3758.3979
		MSE = 22803065			MSE = 22873290	
Thiamin (mg)						
Absent	0.0465	0.0584	0.9822	0.0312	0.0496	0.9911
Present	0.1285**	-0.0047	0.9753	0.1027**	-0.0171	0.9869
		MSE = 0.211			MSE = 0.21	
Riboflavin (mg)						
Absent	0.1006	0.1219	1.4195	0.1252	0.1506	1.4555
Present	0.0251	0.0267	1.5403	-0.0010	0.0285	1.5199
		MSE = 0.663			MSE = 0.66	
Niacin (mg)						
Absent	0.1179	0.6000	10.9337	-0.1793	0.3822	10.9095
Present	1.9189**	-0.0854	10.7269	1.5360**	-0.2786	11.0090
		MSE = 41.657			MSE = 41.43	

(continued)

Table VI-B-5.15 (continued)

Father Present	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total intake adjusted for caloric intake</u>						
Vitamin B6 (mg)						
Absent	0.0372	0.1245*	0.9756	0.0309	0.1050	0.9753
Present	0.1104**	-0.0077	1.0492	0.1078**	-0.0175	1.0576
		MSE = 0.395			MSE = 0.39	
Vitamin B12 (mcg)						
Absent	0.2740	0.4870	3.0482	0.2853	0.6323	3.1251
Present	0.3694	0.5508	3.3043	0.2365	0.5349	3.2831
		MSE = 28.308			MSE = 28.38	
Vitamin C (mg)						
Absent	4.8050	0.8659	94.5580	3.2480	-2.4073	90.6131
Present	14.7381**	-4.2051	91.7483	18.0976**	-4.0577	93.5378
		MSE = 6513.606			MSE = 6385.99	
<u>Intake from potential WIC foods</u>						
Calories (kcal)						
Absent	37.3938	-6.3940	391.2762	40.7927	-5.5275	403.4265
Present	42.5837**	15.7717	359.0454	44.6649**	16.0090	351.3698*
		MSE = 53615.67			MSE = 52300.45	
Protein (g)						
Absent	0.4653	0.2022	18.9277	0.7583	0.4293	19.7485
Present	-1.5698*	0.1574	18.5366	-1.3111	0.3178	17.8988
		MSE = 133.999			MSE = 128.28	
Fat (g)						
Absent	1.1156	-0.2339	18.7461	1.1775	-0.2969	19.2687
Present	1.1660	0.6543	17.3566	1.1510	0.6083	17.1090*
		MSE = 136.29			MSE = 132.77	
Carbohydrate (g)						
Absent	5.9450*	-1.0171	36.5055	6.3687*	-0.9010	37.6868
Present	6.6972**	1.8917	32.7785	7.3033**	2.0571	31.8427*
		MSE = 852.79			MSE = 843.37	
Calcium (mg)						
Absent	34.8265	34.7433	497.0272	50.1674	52.1873	519.2619
Present	-60.5922**	-7.5178	528.7619	-58.7897**	0.4601	508.6604
		MSE = 127034.9			MSE = 124171.3	
Iron (mg)						
Absent	2.0160*	0.2651	4.7046	1.9490*	0.2426	5.0196
Present	4.4544**	0.2336	3.4224	4.1622**	0.1020	3.4080
		MSE = 87.422			MSE = 87.11	
Magnesium (mg)						
Absent	3.6721	-1.8800	78.6134	4.7207	-0.7328	82.4847
Present	-2.8714	1.6021	76.4665	-2.1897	2.1727	73.7292
		MSE = 2682.46			MSE = 2605.03	
Phosphorus (mg)						
Absent	15.4596	17.7612	459.2283	26.1051	28.1519	481.0984
Present	-49.2731**	-0.7006	469.5691	-44.2918*	4.6118	451.5618
		MSE = 89206.4			MSE = 86147.26	
Vitamin A (IU)						
Absent	463.3834 **	282.3257	998.6281	463.3867 **	270.3319	1066.3878
Present	529.4294 **	10.2411	981.5266	494.8450 **	-0.7736	963.2939
	MSE = 2225060				MSE = 2221844	
Thiamin (mg)						
Absent	0.1203*	0.0690	0.3681	0.1174*	0.0659	0.3938
Present	0.1771**	-0.0000	0.3400	0.1694**	-0.0032	0.3315
		MSE = 0.244			MSE = 0.24	

(continued)

Table VI-B-5.15 (continued)

Father Present	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Intake from potential WIC foods</u>						
Riboflavin (mg)						
Absent	0.1589*	0.1322	0.7930	0.1743**	0.1452*	0.8428
Present	0.1024*	-0.0163	0.8199	0.0928*	-0.0133	0.7915
		MSE = 0.493			MSE = 0.49	
Niacin (mg)						
Absent	1.4433*	0.8297	2.4195	1.3656*	0.7840	2.7258
Present	2.3889**	-0.0312	2.2212	2.2038**	-0.0865	2.1628
		MSE = 38.15			MSE = 38.06	
Vitamin B6 (mg)						
Absent	0.1547**	0.1098	0.3184	0.1521**	0.1014	0.3523
Present	0.1737**	0.0017	0.3138	0.1677**	-0.0037	0.3021
		MSE = 0.351			MSE = 0.35	
Vitamin B12 (mcg)						
Absent	0.4817*	0.4443*	1.8451	0.5088**	0.4475*	1.9711
Present	0.3012*	-0.0286	1.9179	0.2773*	-0.0328	1.8571
		MSE = 4.26			MSE = 4.23	
Vitamin C (mg)						
Absent	6.3713	-5.0004	46.2977	6.4758	-6.8227	45.1104
Present	20.0264**	2.8773	36.1012	22.6577**	3.3184	36.0621
		MSE = 4707.714			MSE = 4667.34	
Father Present						
n	Current WIC	Past WIC	Control	Total		
Absent	271	252	186	709		
Present	440	385	577	1,402		
Total	711	637	762	2,111		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship.
See Vol. II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-B-5.16
Mean Dietary Intake and Size of Household

Household Size	Age and Sex Adjusted ^a			Fully Adjusted		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total Intake Per Day</u>						
Calories (kcal)						
3	20.8462	34.8953	1098.4455	-3.4720	31.8985	1110.4701
2	136.1079	48.0102	1098.9369	120.4425	39.8399	1074.7119
4	-57.8350	-39.2935	1202.6626*	-65.2069	-34.3171	1206.2194*
5+	42.3943	-1.5333	1101.8631	22.2491	-19.7619	1117.5222
MSE =	194139				MSE = 190165.7	
Protein (g)						
3	-1.0166	-0.4740	40.6749	-2.1346	-1.1210	41.4556
2	5.4413	6.1540	36.5972	4.5708	4.8596	36.2424
4	-4.3997*	-1.0458	43.4220*	-4.3219*	-0.6046	43.5511
5+	1.0484	1.6182	40.2834	0.7117	0.9098	40.4190
MSE =	365.942				MSE = 357.75	
Fat (g)						
3	1.7308	0.7103	41.2220	0.5443	0.2863	41.7804
2	2.6683	1.2140	43.5935	1.6695	0.6947	42.6460
4	-2.7465	-1.2932	44.6433	-2.9903	-1.0480	44.7365
5+	2.5842	1.0601	40.5134	2.0775	0.1980	41.2404
MSE =	437.892				MSE = 428.119	
Carbohydrate (g)						
3	-0.8492	9.0954	144.7509	-2.7426	10.2985	145.2438
2	22.2350	2.9784	142.1688	21.6748	3.6205	138.5393
4	-5.5560	-5.9005	159.4999	-6.4470	-5.0736	159.6886*
5+	2.2902	-4.6002	146.7007	-0.9258	-6.2914	148.9779
MSE =	4240.74				MSE = 4168.852	
Calcium (mg)						
3	-60.2802	-22.9321	724.7880	-67.7495*	-12.7914	720.8675
2	105.3627	154.1280*	605.3534	97.2891	171.0481*	598.4940
4	-107.2557*	-8.0495	740.2732	-111.8364**	15.8618	732.4157
5+	41.6575	-3.9780	666.3693	57.7642	3.3797	665.4587
MSE =	148511.5				MSE = 144548.5	
Iron (mg)						
3	2.5994**	0.8039	10.0810	2.1948**	0.6943	10.2444
2	3.5666*	-0.0243	10.1669	3.6659*	0.3591	9.8851
4	2.7638**	-0.8323	11.3875	2.1806*	-1.1390	11.6273
5+	3.8071**	0.6534	9.4729	3.0654**	0.3475	9.8876
MSE =	80.204				MSE = 80.019	
Magnesium (mg)						
3	-5.3687	3.8243	161.7097	-7.6985	4.6847	162.4143
2	23.1573	16.0887	144.3846	22.2146	16.6696	142.4505
4	-20.8803*	-8.4107	176.6039*	-21.3025*	-4.3802	175.4034
5+	5.2481	-5.8890	160.0373	4.9598	-7.0598	160.9137
MSE =	6152.054				MSE = 6035.183	
Phosphorus (mg)						
3	-52.1166	-21.7806	813.5909	-65.7253*	-20.8950	816.0990
2	104.0223	147.2807*	708.5554	88.4593	152.5894*	702.3784
4	-115.6704**	-20.7636	849.0350	-118.8387**	0.5986	844.2416
5+	15.9007	4.7765	778.9871	32.3940	9.8120	775.9138
MSE =	138983.4				MSE = 136082.2	

(continued)

Table VI-B-5.16 (continued)

Household Size	Age and Sex Adjusted ^a			Fully Adjusted		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Vitamin A (IU)						
3	291.2008	168.1670	3751.6337	189.6335	205.5062	3781.8419
2	904.5577	732.2120	2697.8630	817.6022	937.7227	2567.6429
4	239.6436	183.4881	3809.5568	94.0745	202.1608	3856.5487
5+	687.1986	916.9260	3603.2357	680.7927	985.0620*	3592.0042
MSE =	24274354			MSE =	24375240	
Thiamin (mg)						
3	0.0690	0.0560	0.9568	0.0303	0.0412	0.9743
2	0.2774*	0.1487	0.8615	0.2732*	0.1536	0.8360
4	0.0402	-0.0539	1.0758*	0.0055	-0.0676	1.0912*
5+	0.1944**	0.0341	0.9250	0.1464**	0.0038	0.9572
MSE =	0.329			MSE =	0.328	
Riboflavin (mg)						
3	-0.0206	0.0651	1.5316	-0.0562	0.0634	1.5326
2	0.4953**	0.3133	1.2658	0.4741*	0.3588	1.2531
4	-0.0358	0.0018	1.5589	-0.0760	0.0114	1.5649
5+	0.1390	0.0463	1.4520	0.1429	0.0562	1.4658
MSE =	0.917			MSE =	0.914	
Niacin (mg)						
3	1.1236	0.4399	10.5468	0.6026	0.2090	10.8138
2	2.0803	0.3910	9.9831	2.0507	0.4031	9.6964
4	0.8824	-0.9132	11.8366	0.4903	-1.1204	12.0400
5+	2.2663**	1.1075	10.1098	1.5079*	0.6648	10.5442
MSE =	59.253			MSE =	58.805	
Vitamin B6 (mg)						
3	0.0491	0.0316	1.0333	0.0273	0.0152	1.0496
2	0.2785	0.1630	0.8196	0.2713	0.1621	0.8081*
4	0.0149	-0.0432	1.1270	0.0003	-0.0594	1.1410
5+	0.1740*	0.1095	0.9632	0.1647*	0.0920	0.9666
MSE =	0.543			MSE =	0.543	
Vitamin B12 (mcg)						
3	0.0885	0.0892	3.5191	-0.0904	0.0230	3.5665
2	0.7250	0.8689	2.6526	0.5236	1.1446	2.5800
4	0.1477	0.0825	3.1838	0.0019	0.1335	3.2337
5+	0.8807	1.3538*	2.8735	0.9828	1.5044**	2.8248
MSE =	29.847			MSE =	29.91	
Vitamin C (mg)						
3	7.2355	3.5624	90.2837	9.4955	4.6281	90.7673
2	22.7267	4.8989	88.9171	25.3970	3.1182	86.8193
4	8.5596	-10.3676	99.3016	9.4198	-14.0471	100.4288
5+	19.4344*	-1.7589	89.0968	16.8995*	-4.3549	89.1100
MSE =	7080.583			MSE =	6985.021	
Total Intake Adjusted for Caloric Intake						
Protein (g)						
3	-1.7397	-1.6843	41.8454	-2.0142*	-2.2273*	42.2090
2	0.7206	4.4889*	37.7507	0.3938	3.4780	38.2359
4	-2.3937	0.3171	40.9779	-2.0604	0.5855	40.9838
5+	-0.4220	1.6714	41.3354	-0.0599	1.5951	40.9278
MSE =	132.463			MSE =	129.635	

(continued)

Table VI-B-5.16 (continued)

Household Size	Age and Sex Adjusted ^a			Fully Adjusted		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Fat (g)						
3	0.8867	-0.7026	42.5886	0.6846	-1.0031	42.6586
2	-2.8429	-0.7300	44.9402	-3.1991	-0.9157	44.9695
4	-0.4046	0.2978	41.7899	-0.3545	0.3392	41.7442
5+	0.8676	1.1222	41.7416	1.1781	0.9969	41.8335
MSE =	.119.647				MSE = 117.85	
Carbohydrate (g)						
3	-3.5138	4.6349	149.0648	-2.2984	6.2177*	148.0229
2	4.8371	-3.1584	146.4198	6.2665	-1.4762	145.8930
4	1.8367	-0.8778	150.4922	1.8949	-0.6834	150.2186
5+	-3.1288	-4.4042	150.5777	-3.7722	-3.7633	150.8548
MSE =	1069.211				MSE = 1053.43	
Calcium (mg)						
3	-70.8683**	-40.6559	741.9293	-65.9842**	-29.0095	731.9125
2	36.2315	129.7430*	622.2451*	36.0526	150.7924*	627.7195*
4	-77.8805*	11.9082	704.4811	-78.6833*	33.3096	694.7789
5+	20.1248	-3.1991	681.7748*	46.4521	13.4273	672.9182*
MSE =	98475.12				MSE = 95617.25	
Iron (mg)						
3	2.4301**	0.5205	10.3550	2.2234**	0.4315	10.4233
2	2.4613	-0.4141	10.4370	2.6740	0.0310	10.3585
4	3.2334**	-0.5133	10.8153	2.7176**	-0.8564	11.0176
5+	3.4629**	0.6659	9.7192	2.8822**	0.5103	10.0084
MSE =	67.436				MSE = 67.206	
Magnesium (mg)						
3	-8.1308	-0.7991	166.1812	-7.2376	0.4500	165.2982
2	5.1237	9.7275	148.7910*	6.2255	11.3807	150.0814
4	-13.2175*	-3.2045	167.2671	-12.6461*	0.1755	165.5763
5+	-0.3690	-5.6859	164.0560	2.0062	-4.4363	162.8614
MSE =	2745.271				MSE = 2703.069	
Phosphorus (mg)						
3	-65.5320**	-44.2374*	835.3095	-63.4856**	-41.4724*	830.1127
2	16.4306	116.3839*	729.9577**	10.7632	126.8892**	739.4594**
4	-78.4509**	4.5236	803.6852	-76.7746**	22.7362	796.4885
5+	-11.3820	5.7632	798.5064	18.0413	22.5602	785.3783
MSE =	58608.41				MSE = 56310.29	
Vitamin A (IU)						
3	233.6122	71.7669	3844.8652	199.3977	115.7987	3842.9353
2	528.5528	599.5814	2789.7369	478.8844	825.6819	2729.2983
4	399.4156	292.0383	3614.8835	277.4543	298.6699	3648.3682
5+	570.0822	921.1620	3687.0261	618.2220	1040.6381*	3633.2651
MSE =	22803627				MSE = 22889148	
Thiamin (mg)						
3	0.0528	0.0288	0.9831	0.0330	0.0162	0.9914
2	0.1713	0.1113	0.8874	0.1786*	0.1223	0.8811
4	0.0852	-0.0233	1.0209	0.0567	-0.0407	1.0331
5+	0.1614**	0.0353	0.9486	0.1290**	0.0193	0.9687
MSE =	0.211				MSE = 0.211	
Riboflavin (mg)						
3	-0.0444	0.0252	1.5703	-0.0521	0.0262	1.5580
2	0.3396*	0.2583	1.3039*	0.3337*	0.3123*	1.3201
4	0.0304	0.0468	1.4783	0.0000	0.0514	1.4787
5+	0.0905	0.0480	1.4867	0.1169	0.0792	1.4829
MSE =	0.664				MSE = 0.658	

(continued)

Table VI-B-5.16 (continued)

Household Size	Age and Sex Adjusted ^a			Fully Adjusted		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Niacin (mg)						
3	0.9263	0.1097	10.8661	0.6356	-0.0943	11.0203
2	0.7925	-0.0632	10.2978	0.9055	0.0243	10.2430
4	1.4296*	-0.5414	11.1699	1.1103	-0.7941	11.3361
5+	1.8652**	1.1220	10.3967	1.2964*	0.8527	10.6837
MSE =	41.892			MSE =	41.69	
Vitamin B6 (mg)						
3	0.0310	0.0014	1.0626	0.0304	-0.0130	1.0688
2	0.1603	0.1213	0.8485*	0.1647	0.1269	0.8590*
4	0.0651	-0.0091	1.0659	0.0580	-0.0291	1.0755
5+	0.1372*	0.1108	0.9895	0.1450*	0.1095	0.9796
MSE =	0.397			MSE =	0.395	
Vitamin B12 (mcg)						
3	0.0294	-0.0098	3.6149	-0.0804	-0.0691	3.6292
2	0.3389	0.7327	2.7469	0.1761	1.0296	2.7459
4	0.3117	0.1940	2.9839	0.1900	0.2326	3.0202
5+	0.7605	1.3582**	2.9596	0.9186	1.5614**	2.8671
MSE =	28.298			MSE =	28.342	
Vitamin C (mg)						
3	6.1232	1.7005	92.0845	9.6867	2.8713	91.9637
2	15.4641	2.3371	90.6917	18.7636	0.9240	89.9851
4	11.6456	-8.2709	95.5415	13.0111	-12.1571	96.3518
5+	17.1723*	-1.6771	90.7152	15.6741*	-3.2665	89.9180
MSE =	6530.953			MSE =	6407.128	
Intake from Potential WIC Foods						
Calories (kcal)						
3	49.2079**	13.9271	355.7848	43.2739*	9.2637	362.3479
2	67.7673	77.7722	335.8508	62.9330	72.9412	338.9955
4	-11.6236	2.8109	398.1607*	-14.9040	4.1677	400.2045
5+	74.6258**	-3.2600	364.5786	88.0467**	0.2030	353.3682
MSE =	53539.96			MSE =	52068.9	
Protein (g)						
3	-1.0115	-0.5125	18.3835	-1.2929	-0.7342	18.6090
2	1.6171	4.2463	16.3582	1.1514	3.9306	16.6970
4	-3.1660*	0.6364	19.6642	-3.0661*	1.1003	19.5935
5+	0.7903	-0.2782	18.6292	1.9032	0.1862	17.9018
MSE =	133.884			MSE =	127.664	
Fat (g)						
3	1.5696	0.5140	17.0448	1.0976	0.1483	17.4694
2	2.3213	3.4699	16.7847	1.9290	3.1101	16.9002
4	-0.3544	0.9033	18.5470	-0.4527	1.0437	18.6329
5+	1.8328	-0.8289	18.2140	2.4412*	-0.6972	17.7046
MSE =	136.272			MSE =	132.535	
Carbohydrate (g)						
3	7.1404**	2.0550	32.9055	7.1081**	1.9690	33.2910
2	9.9073	8.3534	28.6548	10.0053	7.9945	29.0810
4	-1.2122	-1.9544	38.5428*	-1.5612	-2.1728	38.7832
5+	12.2479**	1.3044	31.8222	13.3251**	1.5146	30.7733
MSE =	851.132			MSE =	839.296	
Calcium (mg)						
3	-50.2327	-14.3938	533.2767	-53.7297	-9.8890	531.2616
2	49.6364	109.9307	453.0095	41.8086	118.7031	455.1216
4	-108.2731**	17.6316	544.3364	-109.5615**	36.3245	538.2052
5+	42.9912	-2.4951	495.4970	67.7520*	9.1251	485.4564
MSE =	126867.3			MSE =	123763.1	

(continued)

Table VI-B-5.16 (continued)

Household Size	Age and Sex Adjusted ^a			Fully Adjusted		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Iron (mg)						
3	4.0177**	0.2780	3.5321	3.8469**	0.1802	3.6201
2	2.1722	0.4291	4.2703	2.3672	0.7030	4.2047
4	3.0804**	-0.3318	4.6223	2.5866*	-0.7164	4.8615
5+	4.2250**	1.1319	3.1833	3.8551**	0.9822	3.3502
MSE =	87.844			MSE =	87.46	
Magnesium (mg)						
3	-2.0634	-0.8546	75.5831	-3.1196	-1.3369	76.3350
2	12.0632	17.6757	62.8353	11.2966	16.7921	64.6379
4	-13.7330*	-0.6600	85.0181	-13.7259*	1.2939	84.4767
5+	9.9651*	-0.7137	75.3838	13.4007**	0.7178	72.9855
MSE =	2669.829			MSE =	2585.304	
Phosphorus (mg)						
3	-39.6054	-13.7866	469.4688	-44.1317	-15.3326	471.3888
2	41.5686	108.6137	401.6281	32.5071	108.6165	408.3649
4	-93.3334**	15.5234	492.6599	-92.6149**	29.5984	488.7537
5+	26.6274	-3.8919	454.9863	53.9283	8.3869	439.9740
MSE =	89031.58			MSE =	85691.93	
Vitamin A (IU)						
3	539.5469**	34.6587	975.0982	516.3162**	14.4467	974.7262
2	490.3702	418.6369	876.6136	492.7515	470.0347	852.8445
4	238.7329	-47.6953	1162.9457	176.8677	-103.0844	1199.7448
5+	687.5642**	268.7464	872.6588	667.7144**	254.5964	902.6564
MSE =	2229717			MSE =	2222953	
Thiamin (mg)						
3	0.1589**	0.0130	0.3452	0.1531**	0.0077	0.3466
2	0.1600	0.1341	0.2982	0.1659	0.1456	0.2992
4	0.0738	-0.0288	0.4122	0.0535	-0.0463	0.4227
5+	0.2330**	0.0749	0.3036	0.2229**	0.0703	0.3100
MSE =	0.245			MSE =	0.2444	
Riboflavin (mg)						
3	0.1104	-0.0270	0.8266	0.0981	-0.0333	0.8242
2	0.1773	0.2442	0.7177	0.1731	0.2689*	0.7167
4	-0.0183	0.0234	0.8754	-0.0393	0.0246	0.8805
5+	0.2325**	0.0790	0.7583	0.2518**	0.0879	0.7584
MSE =	0.493			MSE =	0.488	
Niacin (mg)						
3	2.2039**	0.1397	2.1892	2.1255**	0.0943	2.1609
2	1.6706	0.9973	1.8563	1.8405	1.2650	1.8342
4	1.3704*	-0.4489	3.0277	1.0926	-0.6775	3.1405
5+	2.5904**	1.0175	1.8332	2.2888**	0.9034	2.0591
MSE =	38.278			MSE =	38.178	
Vitamin B6 (MG)						
3	0.1812**	-0.0087	0.3088	0.1715**	-0.0240	0.3130
2	0.1901	0.1865	0.2235	0.1956	0.1997	0.2255
4	0.0626	-0.0143	0.3845	0.0441	-0.0349	0.3973
5+	0.2306**	0.1171*	0.2840	0.2327**	0.1166*	0.2846
MSE =	0.351			MSE =	0.35	
Vitamin B12 (mcg)						
3	0.3622*	-0.0970	1.9215	0.3171	-0.1429	1.9271
2	0.5588	0.8670*	1.5762	0.5301	0.9144*	1.5763
4	-0.0435	0.0593	2.0786	-0.0956	0.0311	2.1105
5+	0.6356**	0.3148	1.7795	0.6952**	0.3362	1.7731
MSE =	4.2562			MSE =	4.226	

(continued)

Table VI-B-5.16 (continued)

Household Size	Age and Sex Adjusted ^a			Fully Adjusted		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Vitamin C (MG)						
3	16.1095**	6.8717	38.7807	18.6975**	7.9433	38.3314
2	14.8224	10.2063	36.5722	16.1190	8.7553	36.2434
4	5.3844	-7.2121	44.0810	6.0924	-9.5508	44.5700
5+	25.3898**	-0.5793	33.9057	25.3454**	-1.6442	33.4554
MSE =	4710.471			MSE =	4673.031	
Household Size	Current WIC	Past WIC	Controls	Total		
3	284	223	333	840		
2	61	65	44	170		
4	142	147	178	467		
5	<u>224</u>	<u>202</u>	<u>208</u>	<u>634</u>		
Total	711	637	763	2,111		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship. See Vol. II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-B-5.17

Mean Dietary Intake and Father Present/Household Size

Father Present/ Household Size	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
<u>Total intake per day</u>						
<u>Calories (kcal)</u>						
Yes / 4+	-26.5854	-32.6762	1144.7034	-38.9840	-36.5847	1162.5441
No / 2	125.0044**	47.9557	1099.004	99.4025*	36.1854	1077.7360
No / 3+	-27.9528	-47.0082	1181.1456	-46.5748	-53.9396	1170.4745
Yes / 3	57.3325	70.0995	1076.4873	42.2500	71.2780	1092.0676
MSE =	194393.7			MSE =	190327.2	
<u>Protein (g)</u>						
Yes / 4+	-2.8433	0.1114	41.4524	-2.7271	0.1812	41.7016
No / 2	5.0885**	6.3033**	36.6101	3.8171*	4.9449**	36.5457
No / 3+	-1.4892	-1.2786	43.5299	-2.1859	-1.6766	43.0736
Yes / 3	-0.1034	0.2485	39.8796	-0.7446	-0.2083	40.8299
MSE =	365.5938			MSE =	358.021	
<u>Fat (g)</u>						
Yes / 4+	-1.2463	-0.3526	42.0596	-1.6995	-0.5789	42.6064
No / 2	2.5339	1.1857	43.5915	1.0973	0.6821	42.9504
No / 3+	0.5917	-1.2403	43.6714	0.1588	-1.5937	43.6164
Yes / 3	2.6930	1.7559	40.7413	1.8342	1.5069	41.3217
MSE =	437.9349			MSE =	428.3093	
<u>Carbohydrate (g)</u>						
Yes / 4+	-3.3610	-7.9018	153.0797	-5.2601	-8.0661	155.8936
No / 2	19.9048**	2.8676	142.1763	18.1250**	2.6514	138.3458
No / 3+	-7.0462	-7.2419	155.5870	-9.6898	-7.5607	153.6661
Yes / 3	4.7377	15.4282*	141.2735*	3.9570	17.1184*	142.3101*
MSE =	4248.704			MSE =	4172.034	
<u>Calcium</u>						
Yes / 4+	-55.8546	-28.7047	717.3502	-61.5138	-18.9837	699.4912
No / 2	94.5229**	158.0637**	606.6975	84.7561	179.5405**	607.0749
No / 3+	19.8471	-6.7676	690.4573	33.1634	12.3374	712.2072
Yes / 3	-67.2857	1.4700	716.6696	-71.6076	9.9543	705.5058
MSE =	148964.3			MSE =	144979.7	
<u>Iron</u>						
Yes / 4+	4.0793**	-0.6961	10.2784	3.3493**	-0.9949	10.7103
No / 2	3.5460**	-0.2330	10.1685	3.4834**	0.0786	9.8992
No / 3+	0.05014	0.1628	11.2600	-0.0068	-0.0737	11.3208
Yes / 3	3.7723**	1.1724	9.6568	3.4097**	1.0781	9.8862
MSE =	79.85608			MSE =	79.57082	

(continued)

Table VI-B-5.17 (continued)

Father Present/ Household Size	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Magnesium						
Yes / 4+	-11.5809	-12.7924	170.6595	-13.2924	-12.3206	170.7198
No / 2	20.5182**	16.4967*	144.4408*	17.2207*	16.3166*	143.1276*
No / 3+	-2.0541	-7.5512	166.0332	-3.2286	-6.6155	166.0389
Yes / 3	-2.7322	13.4407	158.2928	-3.5571	14.5838	159.3668
MSE =	6159.81			MSE =	6043.819	
Phosphorus (mg)						
Yes / 4+	-64.9414	-20.1117	821.9724	-66.3137*	-11.8310	810.5790
No / 2	91.5779**	148.8486**	708.9175	68.5525*	154.4192**	709.0936
No / 3+	-19.0945	-25.7371	812.4388	-15.5960	-15.6863	823.7814
Yes / 3	-47.9048	5.4611	802.3450	-55.9074	6.4614	803.0519
MSE =	139346.2			MSE =	135551.6	
Vitamin A (IU)						
Yes / 4+	642.3839	585.9334	3689.8912	533.0749	627.4436	3734.9785
No / 2	840.8481	720.6234	2701.6718	701.2732	889.4243	2578.9340
No / 3+	124.9686	542.6677	3824.4461	81.2827	601.6916	3768.4593
Yes / 3	376.3771	51.3755	3710.9696	278.5045	70.7221	3781.1212
MSE =	24273126			MSE =	24357211	
Thiamin (mg)						
Yes / 4+	0.1553**	-0.0586	0.9932	0.1137*	-0.0764	1.0270
No / 2	0.2597**	0.1347*	0.8620	0.2429**	0.1350*	0.8394
No / 3+	-0.0119	0.0113	1.0504	-0.0504	-0.0126	1.0499
Yes / 3	0.1217	0.0851	0.9234	0.0909	0.0762	0.9446
MSE =	0.3285865			MSE =	0.3271264	
Riboflavin (mg)						
Yes / 4+	0.0740	-0.0039	1.5187	0.0301	-0.0011	1.5243
No / 2	0.4762**	0.3012**	1.2663	0.4292**	0.3442**	1.2607
No / 3+	0.0009	0.0290	1.5111	-0.0017	0.0310	1.5323
Yes / 3	0.0086	0.1063	1.5140	-0.0273	0.1023	1.5188
MSE =	0.9181951			MSE =	0.9147757	
Niacin (mg)						
Yes / 4+	2.2368**	-0.2245	10.6976	1.6940*	-0.4615	11.2321
No / 2	1.9403**	0.1276	9.9858	1.7222*	0.0126	9.6801
No / 3+	-0.3489	0.4797	11.5959	-0.9625	0.0781	11.4165
Yes / 3	1.8592*	0.3963	10.3554	1.3941	0.2202	10.7817
MSE =	59.09559			MSE =	58.58884	

(continued)

Table VI-B-5.17 (continued)

Father Present/ Household Size	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Vitamin B6 (mg)						
Yes / 4+	0.1315*	-0.0311	1.0517	0.1197	-0.0395	1.0772
No / 2	0.2596**	0.1420*	0.8200	0.2312**	0.1277	0.8030
No / 3+	-0.0229	0.0947	1.0576	-0.0521	0.0580	1.0391
Yes / 3	0.1137	0.0486	1.0095	0.0983	0.0352	1.0393
MSE =	0.541967			MSE =	0.5424606	
Vitamin B12 (mg)						
Yes / 4+	0.7306	1.1141*	2.9807	0.6341	1.1721*	2.9578
No / 2	0.6401	0.8318	2.6589	0.4163	1.0932*	2.5854
No / 3+	0.1911	0.2896	3.2737	0.2041	0.3700	3.3474
Yes / 3	0.0840	-0.0119	3.5242	-0.1546	-0.1183	3.5940
MSE =	29.87492			MSE =	29.92352	
Vitamin C (mg)						
Yes / 4+	15.2913*	-12.8986	96.0747	16.8156*	-14.1091	99.5612
No / 2	19.5769*	5.9166	88.9781	21.5897**	2.4828	85.3829
No / 3+	0.6701	-2.3259	98.4786	-3.0887	-6.2810	93.6805
Yes / 3	15.4048	7.7511	84.9496	18.8006*	9.2028	86.7791
MSE =	7068.56			MSE =	6962.032	
Total intake adjusted for caloric intake						
Protein (g)						
Yes / 4+	-1.9224	1.2432	41.0191	-1.3763	1.4488	40.6500
No / 2	0.7597	4.6422**	37.7597	0.3728	3.6911**	38.4327
No / 3+	-0.5210	0.3496	41.8343	-0.5721	0.1924	41.7472
Yes / 3	-2.0892	-2.1796	41.8091	-2.2085	-2.6780*	42.2202
MSE =	132.4386			MSE =	129.5767	
Fat (g)						
Yes / 4+	-0.1702	0.9700	41.5533	-0.1249	0.8988	41.3805
No / 2	-2.5258*	-0.7554	44.9349	-2.9177**	-0.7795	45.1500*
No / 3+	1.7231	0.6624	41.6901	2.0400	0.5850	42.0702
Yes / 3	0.3724	-1.0815	42.9961	0.1276	-1.3721	42.9425
MSE =	119.5115			MSE =	117.8557	
Carbohydrate (g)						
Yes / 4+	0.0395	-3.7222	151.4796	-0.2703	-3.3834	152.0089
No / 2	3.9157	-3.2663	146.4215	5.4019	-1.9802	145.3162
No / 3+	-3.4708	-1.2291	149.3256	-3.7284	-0.6566	148.7663
Yes / 3	-2.5956	6.4619	148.3989	-1.4508	7.9951*	147.4461
MSE =	1068.829			MSE =	1054.421	

(continued)

Table VI-B-5.17 (continued)

Father Present/ Household Size	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Calcium (mg)						
Yes / 4+	-42.3071	-12.0534	710.9756	-41.6555	-0.3476	684.0309
No / 2	30.8228	133.6262**	622.6102	34.1208	161.1078**	634.8156
No / 3+	34.0914	17.1870	665.5124	56.8884	39.8141	692.7072
Yes / 3	-96.5014**	-34.2515	745.0567	-93.1296**	-26.3544	725.9460
MSE =	98532.16			MSE =	95638.95	
Iron (mg)						
Yes / 4+	4.2960**	-0.4298	10.1764	3.6701**	-0.6939	10.4606
No / 2	2.5270**	-0.6239	10.4390	2.6654**	-0.2192	10.3474
No / 3+	0.7292	0.5460	10.8610	0.3764	0.3702	11.0058
Yes / 3	3.3049**	0.6010	10.1109	3.0620 **	0.4915	10.2164
MSE +	66.97272			MSE =	66.71451	
Magnesium (mg)						
Yes / 4+	-8.0539	-8.4573	168.9999	-8.1265	-7.4726	166.6979
No / 2	3.9342	10.1345*	148.8439*	4.0484	11.5215*	1540.3441
No / 3+	1.6543	-1.3147	159.5389	2.9432	0.5323	160.9662
Yes / 3	-10.3383	4.1408	165.6832	-9.1559	5.1384	164.6841
MSE =	2739.659			MSE =	2702.952	
Phosphorus (mg)						
Yes / 4+	-47.8100*	0.9447	813.9114	-41.1784	11.7573	791.0104
No / 2	11.0259	117.9463**	730.3045*	4.4618	131.0883**	744.2059
No / 3+	-1.8919	4.5546	780.8946	14.4336	19.0918	799.0995
Yes / 3	-84.8495**	-39.7105	838.2419	-83.1485**	-39.4957	828.9236
MSE =	58653.73			MSE =	56456.99	
Vitamin A (IU)						
Yes / 4+	715.7928	676.1607	3655.3492	642.3271	729.9717	3649.9223
No / 2	495.6799	588.2057	2793.3161	422.6989	788.0152	2731.5516
No / 3+	202.1533	672.4690	3689.2783	211.8080	752.8567	3661.1781
Yes / 3	218.0678	-142.1867	3864.7893	160.0994	-129.0336	3893.5745
MSE =	22801851			MSE =	22873452	
Thiamin (mg)						
Yes / 4+	0.1761**	-0.0331	0.9835	0.1444**	-0.0476	1.0032
No / 2	0.1620**	0.0973*	0.8879	0.1648**	0.1065*	0.8822
No / 3+	0.0099	0.0481	1.0121	-0.0138	0.0297	1.0198
Yes / 3	0.0769	0.0304	0.9669	0.0577	0.0202	0.9761
MSE =	0.2100435			MSE =	0.2097514	

(continued)

Table VI-B-5.17 (continued)

Father Present/ Household Size	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Riboflavin (mg)						
Yes / 4+	0.1044	0.0335	1.5044	0.0754	0.0414	1.4890
No / 2	0.3328**	0.2462**	1.3043	0.3138**	0.3021**	1.3239
No / 3+	0.0330	0.0829	1.4549	0.0524	0.0936	1.4878
Yes / 3	-0.0571	0.0259	1.5779	-0.0764	0.0194	1.5654
MSE =	0.6628927			MSE =	0.6582288	
Niacin (mg)						
Yes / 4+	2.4890**	0.0855	10.5789	2.0645**	-0.1138	10.9436
No / 2	0.7545	-0.3273	10.3007	0.7773	-0.3314	10.1978
No / 3+	-0.0838	0.9257	11.1316	-0.5198	0.5908	11.0527
Yes / 3	1.3153	-0.2687	10.8838	0.9925	-0.4573	11.1631
MSE =	41.62167			MSE =	41.41026	
Vitamin B6 (mg)						
Yes / 4+	0.1547**	-0.0027	1.0408	0.1542**	-0.0071	1.0503
No / 2	0.1506**	0.1003	0.8489	0.1432*	0.0957	0.8512
No / 3+	0.0015	0.1357	1.0149	-0.0109	0.1057	1.0052
Yes / 3	0.0637	-0.0125	1.0580	0.0609	-0.0279	1.0749
MSE =	0.3945648			MSE =	0.3936161	
Vitamin B12 (mcg)						
Yes / 4+	0.8060	1.2068*	2.9462	0.7463	1.2774**	2.8704
No / 2	0.2855	0.6958	2.7530	0.1300	0.9890	2.7422
No / 3+	0.2704	0.4230	3.1348	0.3382	0.5253	3.2372
Yes / 3	-0.0786	-0.2108	3.6822	-0.2763	-0.3236	3.7095
MSE =	28.32384			MSE =	28.35907	
Vitamin C (mg)						
Yes / 4+	16.7110*	-11.1537	95.4066	18.9697**	-12.0875	97.8841
No / 2	12.9015	3.3557	90.7504	16.0970*	0.4833	88.3921
No / 3+	2.1628	0.1845	95.8645	-0.5151	-3.3005	91.5652
Yes / 3	12.3431	4.0077	87.9245	16.4660	5.2642	88.9964
MSE =	6517.314			MSE =	6383.975	
Intake from potential WIC foods						
Calories (kcal)						
Yes / 4+	27.9072	-3.2686	378.8068	33.0807	1.7752	365.1159
No / 2	66.4249**	77.2992**	336.1590	59.3286**	76.0763**	346.7027
No / 3+	26.8282	-32.7465	408.6993	30.6941	-33.0595	419.1393*
Yes / 3	56.9899*	35.8493	338.4185*	56.8276*	31.7940	339.7258
MSE =	53512.13			MSE =	52244.32	

(continued)

Table VI-B-5.17 (continued)

Father Present/ Household Size	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Protein (g)						
Yes / 4+	-2.0486*	-0.1955	19.2911	-1.4910	0.3269	18.2999
No / 2	1.5521	4.3575**	16.3743	0.9209	4.2710**	17.1639
No / 3+	0.0475	-1.1109	19.7351	0.4422	-0.9042	20.4093
Yes / 3	-1.1155	0.4507	17.7515	-1.0788	0.2734	17.6565
MSE =	133.8116			MSE =	128.1408	
Fat (g)						
Yes / 4+	0.2748	-0.0070	18.2706	0.5517	0.2718	17.6663
No / 2	2.3534*	3.5360**	16.7897	1.8451	3.3098**	17.2394
No / 3+	0.6745	-1.4331	19.3683	0.7735	-1.5366	19.8065
Yes / 3	2.0533	1.3062	16.4031	1.8069	0.9565	16.6512
MSE =	136.1767			MSE =	132.7562	
Carbohydrate (g)						
Yes / 4+	5.9133*	-0.6890	34.7501	6.4190*	-0.3579	33.4730
No / 2	9.4579**	8.0377**	28.7114	9.3664**	8.1151**	29.8609
No / 3+	4.6493	-3.8270	38.9544	5.0055	-3.8583	39.9534*
Yes / 3	7.4285*	4.7548	30.7189	8.1318*	4.8041	30.4080
MSE =	851.32			MSE =	842.5477	
Calcium (mg)						
Yes / 4+	-62.7521*	-12.3637	532.2071	-58.4521	0.1592	507.2434
No / 2	44.4268	111.5475**	453.2754	36.3927	127.5565**	466.2672
No / 3+	30.8197	10.1901	510.5772	48.4392	26.384	533.8606
Yes / 3	-58.2555	-2.2826	525.1431	-58.4210	1.0763	513.2028
MSE =	127256.1			MSE =	124305.7	
Iron (mg)						
Yes / 4+	4.5623**	-0.1775	3.6920	4.0954**	-0.3632	3.7203
No / 2	2.3266*	0.1687	4.2798	2.5504**	-0.5416	4.3431
No / 3+	1.8977	0.3123	4.8443	1.7697	0.1633	5.2226
Yes / 3	4.3179**	0.7073	3.1418	4.1980**	0.6328	3.0896
MSE =	87.59673			MSE =	87.25802	
Magnesium (mg)						
Yes / 4+	-4.3694	-1.3288	80.3950	-3.0417	0.2863	76.5180
No / 2	11.3450*	17.9724**	62.9279*	9.6979	17.9164**	66.5919
No / 3+	0.8588	-8.0659	83.5588	1.8999	-7.1382	86.6703
Yes / 3	-1.5447	4.5163	72.3760	-1.1958	4.2121	71.7621
MSE =	2674.465			MSE =	2599.857	

(continued)

Table VI-B-5.17 (continued)

Father Present/ Household Size	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Phosphorus (mg)						
Yes / 4+	-56.5078*	-8.2775	481.5869	-46.4115	4.2291	456.5351
No / 2	38.2112	109.7462**	401.9653	25.7596	115.5626**	419.3584
No / 3+	6.8606	-11.3802	477.1920	19.2315	-2.3509	497.0530
Yes / 3	-42.3099	6.3561	457.0462	-40.9375	4.7957	450.7624
MSE =	89230.85				86142.39	
Vitamin A (IU)						
Yes / 4+	549.9012**	-17.5288	1019.8991	501.3571**	-29.7068	1020.1981
No / 2	494.5869**	357.3078*	878.6086	497.0651**	427.7794**	890.3567
No / 3+	447.9899	261.0319	1037.1275	447.9859	221.0202	1119.2610
Yes / 3	504.0929**	38.4504	941.7596	482.3862**	27.5876	908.6104
MSE =	2229436				2224033	
Thiamin (mg)						
Yes / 4+	0.1900**	-0.0246	0.3542	0.1754**	-0.0289	0.3496
No / 2	0.1599**	0.1162*	0.2989	0.1652**	0.1345**	0.3099
No / 3+	0.1061	0.0552	0.3900	0.0997	0.0438	0.4177
Yes / 3	0.1624**	0.0284	0.3253	0.1612**	-0.0263	0.3154
MSE =	0.2442531				0.2435764	
Riboflavin (mg)						
Yes / 4+	0.1129	-0.0190	0.8286	0.1028	-0.0093	0.7997
No / 2	0.1767**	0.2249**	0.7185	0.1728**	0.2645**	0.7383
No / 3+	0.1509	0.1033	0.8164	0.1679	0.1057	0.8721
Yes / 3	0.0906	-0.0147	0.8108	0.0818	-0.0191	0.7872
MSE =	0.4939611				0.4890172	
Niacin (mg)						
Yes / 4+	2.5959**	-0.2568	2.3559	2.2928**	-0.3609	2.3981
No / 2	1.7289**	0.7290	1.8635	1.9148**	1.0602	1.9263
No / 3+	1.3345	0.8797	2.5970	1.2016	0.7138	2.9596
Yes / 3	2.1571**	0.2317	2.0815	2.0786**	0.2210	1.9294
MSE =	38.19596				38.09167	
Vitamin B6 (mg)						
Yes / 4+	0.1854**	0.0005	0.3328	0.1788**	-0.0000	0.3215
No / 2	0.1927**	0.1621**	0.2245	0.1966**	0.1839**	0.2391
No / 3+	0.1397	0.0951	0.3482	0.1360	0.0756	0.3844
Yes / 3	0.1592	-0.0004	0.2942	0.1538*	-0.0110	0.2847
MSE =	0.3512787				0.3498903	

(continued)

Table VI-B-5.17 (continued)

Father Present/ Household Size	Age and Sex Adjusted ^a WIC Status			Fully Adjusted WIC Status		
	Current WIC	Past WIC	Controls	Current WIC	Past WIC	Controls
Vitamin B12 (mcg)						
Yes / 4+	0.3271	-0.0010	1.9543	0.3163	0.0229	1.8903
No / 2	0.5619**	0.7999**	1.5791	0.5326**	0.8873**	1.6336
No / 3+	0.4478	0.3331	1.9290	0.4874	0.3048	2.0684
Yes / 3	0.2696	-0.0706	1.8804	0.2332	-0.1057	1.8304
MSE =	4.266891			MSE =	4.236528	
Vitamin C (mg)						
Yes / 4+	19.1049**	-2.6443	37.1583	20.8924**	-3.0299	37.9161
No / 2	12.9477*	10.4547	36.6048	13.7932*	8.6447	36.1829
No / 3+	4.2943	-9.9382	49.2767	3.5487	-11.9838	47.8433
Yes / 3	21.0957**	9.6101	34.9681	24.4280**	10.8980	34.4347
MSE =	4712.014			MSE =	4671.942	
Father Present/ Household Size	Current WIC	Past WIC	Controls	Total		
n						
Yes / 4+	233	213	296	732		
No / 2	217	172	281	670		
No / 3+	59	63	44	166		
Yes / 3	212	189	142	543		
Total	711	637	763	2111		

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Age adjustment includes second-order term (age²) to account for nonlinearity of relationship. See Vol. II, Table V-1 for full covariate list. Values are differences from control group means.

^b Yes / 4+ = Father present in household, 2 parents and > 2 children.
 No / 2 = No father present in household, 1 parent and 1 child.
 No / 3+ = No father present in household, 1 parent and > children.
 Yes / 3 = Father present in household, 2 parents and 1 child.

Table VI-C-1

Multiple Regression Analysis: Height Controlled for All Covariates^a

Variable	DF	Parameter estimate	Standard error	T ratio	Prob> T
INTERCEPT	1	29.961343	3.539332	8.4653	0.0001
KIDAGE	1	0.989240	0.034216	28.9117	0.0001
AGESQ	1	-0.00442756	0.0005408088	-8.1869	0.0001
SEX	1	-1.003074	0.221292	-4.5328	0.0001
CATETH1	1	0.211016	0.358936	0.5879	0.5567
CATETH2	1	0.707359	0.296982	2.3818	0.0173
CATETH3	1	0.696894	0.661003	1.0543	0.2919
INCOME	1	0.001557051	0.003194475	0.4874	0.6260
CATINC4	1	0.155105	0.381675	0.4064	0.6845
HHSIZE	1	-0.091344	0.067780	-1.3477	0.1779
MOMAGE	1	0.027305	0.032901	0.8299	0.4067
MOMED	1	-0.052929	0.065955	-0.8025	0.4223
FATED	1	-0.073232	0.057684	-1.2695	0.2044
CATFED3	1	0.153630	0.489190	0.3141	0.7535
CATMOCC1	1	-1.126921	0.831730	-1.3549	0.1756
CATMOCC2	1	-0.202568	0.284026	-0.7132	0.4758
CATMOCC3	1	0.716997	0.648535	1.1056	0.2690
CATMOCC4	1	0.072525	0.301320	0.2407	0.8098
CATFOCC1	1	0.398923	0.513900	0.7763	0.4377
CATFOCC2	1	0.203976	0.280576	0.7270	0.4673
CATFOCC3	1	0.075241	0.561872	0.1339	0.8935
CATFOCC4	1	0.067295	0.407572	0.1651	0.8689
MARITAL	1	-0.029884	0.402233	-0.0743	0.9408
LIVWFAT	1	-0.589073	0.417553	-1.4108	0.0585
CATMEMP1	1	0.079734	0.367256	0.2171	0.8281
CATMEMP2	1	-0.113195	0.311660	-0.3632	0.7165
CATFEMP1	1	0.052511	0.250928	0.2093	0.8343
CATFEMP2	1	0.470472	0.413153	1.1387	0.2549
AFDC	1	0.326959	0.309927	1.0550	0.2916
MEDICAID	1	0.043415	0.291080	0.1492	0.8814
CATFDST	1	-0.623437	0.272051	-2.2916	0.0220
SCHFOOD	1	0.474926	0.504315	0.9417	0.3464
BRTORDER	1	-0.00211108	0.105949	-0.0199	0.9841
TWIN	1	-1.857859	1.285216	-1.4456	0.1484
MOMHT	1	0.354303	0.040843	8.6748	0.0001
DADHT	1	0.199612	0.035669	5.5963	0.0001
DADHTMIS	1	-1.044896	0.395331	-2.6431	0.0083
CATWINC1					
Prenatal	1	-0.863295	0.266851	-3.2351	0.0012

(continued)

Table VI-C-1 (continued)

Variable	DF	Parameter estimate	Standard error	T ratio	Prob> T
CATWINC2					
0-3 months	1	-1.119428	0.398711	-2.8076	0.0050
CATWINC3					
4-11 months	1	-0.875165	0.578371	-1.5132	0.1304
CATWINC4					
12+ months	1	-0.805193	0.535030	-1.5049	0.1325
CATWINC5					
Non-WIC	1	-0.621250	0.760289	-0.8171	0.4140
SSE	53258.74	F ratio	234.09		
DFE	2100	Prob>F	0.0001		
MSE	25.361304	R-square	0.8205		

^aIncludes length. See Vol. II, Table VI-1 for list of covariates.

Table VI-C-2.1
Anthropometric Indices for Both
Partially and Fully Adjusted Models

	Age at WIC Inception (m)					
	Prenatal	0 thru 3	4 thru 11	12+	Unknown	Controls
Weight (kg)						
Age and sex adjusted ^a	-0.0711	-0.1320	-0.3706	-0.0361	-0.1916	12.9606
Fully adjusted	-0.0837	-0.1212	-0.3165	-0.0089	-0.1004	12.9597
Height Length (cm)						
Age and sex adjusted	-0.6554	-0.9076	-0.9359	-0.8893	-0.5833	88.0609
Fully adjusted	-0.8633	-1.1194	-0.8752	-0.8052	-0.6212	88.1738
Quetlet's Index (kg*100/cm)						
Age and sex adjusted	0.0019	0.0030	-0.0010	0.0019	-0.0011	0.1665
Fully adjusted	0.0025	0.0040	-0.0007	0.0021	0.0001	0.1661
Head Circumference (cm)						
Age and sex adjusted	0.0551	-0.0951	-0.0233	-0.2829	-0.1970	47.9916
Fully adjusted	0.0440	-0.1054	0.0619	-0.2726	-0.2080	47.9941
n	993	225	88	105	48	683
Arm Circumference (cm)						
Age and sex adjusted	-0.1616	-0.1784	0.0394	-0.0631	-0.7009	16.0248
Fully adjusted	-0.1168	-0.1455	0.0133	-0.0581	-0.6332	15.9998
Mean Tricep Skinfold (mm)						
Age and Sex adjusted	-0.1691	-0.0862	-0.2297	0.1297	-0.0131	6.4726
Fully adjusted	-0.1489	-0.0885	-0.2881	0.0074	-0.0076	6.4722
Mean Subscapular Skinfold (mm)						
Age and sex adjusted	-0.1443	0.0898	-0.0800	0.2640	-0.1120	4.4795
Fully adjusted	-0.1302	0.1397	-0.1295	0.1895	-0.0421	4.4717
n	982	225	87	99	46	670

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Age adjustment includes second order term (age²) for nonlinearity of relationship. See Vol. II, Table VI-1 for full covariate list. Values are differences from the control group means.

Table VI-C-2.2

Birthweight (g) by Age of WIC Inception

	Age of WIC Inception (m)					Controls
	Prenatal	0-3	4-11	12+	Unknown	
Age and Sex Adjusted ^a	-19.49	-127.33**	-53.86	14.51	-100.26	<u>3264.12</u>
Fully Adjusted	57.95*	-57.47	-20.55	25.95	-46.90	<u>3217.59</u>

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship. See Table III-1 for full covariate list. Values are differences from the control group means (which are underlined), by age of WIC inception.

Table VI-C-2.3

Head Circumference (cm) Controlled for Birthweight and Stature

		<u>Age of WIC inception</u>				
	Prenatal	0-3	4-11	12+	DK	Controls
<u>Controlled for age and sex^a</u>						
Not controlled for stature	0.06	-0.10	-0.02	-0.28	-0.20	47.99
Controlled for birthweight	0.06	0.04	0.07	-0.22	-0.12	47.97
Controlled for stature	0.13	0.01	0.08	-0.18	-0.13	47.94
Controlled for birthweight and stature	0.12	0.11	0.10	-0.16	-0.08	47.93
<u>Controlled for all social and demographic covariates</u>						
Not controlled for stature	0.04	-0.11	0.06	-0.27	-0.21	47.99
Controlled for birthweight	0.00	-0.01	0.13	-0.22	-0.19	48.00
Controlled for stature	0.13	0.01	0.15	-0.19	-0.14	47.93
Controlled for birthweight and stature	0.09	0.09	0.15	-0.16	-0.14	47.95

^aAge adjustment includes second order term (age²) to account for nonlinearity of relationship. See Vol. II, Table VI-1 for full covariate list. Values are differences from the control group means.

Table VI-C-2.4

Anthropometric Measures for Infants
and Children Only

	Age at WIC Inception (m)					
	Prenatal	0 thru 3	4 thru 11	12+	Unknown	Controls
<u>For Infants Only</u>						
Weight (kg)						
Age and sex adjusted	-0.2105	0.5210	0.1077	.	-1.0833	9.0514
Fully adjusted	-0.1818	0.4102	0.0274	.	-0.8301	9.0500
Height/Length (cm)						
Age and sex adjusted	-0.8433	0.0680	0.8945	.	-2.7445	71.7085
Fully adjusted	-1.2006	-0.0026	0.3639	.	-2.9561	71.9441
Quetelet's Index (kg*100/cm ²)						
Age and sex adjusted	0.0011	0.0107	-0.0019	.	-0.0056	0.1752
Fully adjusted	0.0038	0.0088	-0.0002	.	-0.0002	0.1738
Head Circumference (cm)						
Age and sex adjusted	0.0634	-0.0633	0.6219	.	-1.3942	44.6538
Fully adjusted	0.0977	-0.0069	0.4905	.	-1.3043	44.6360
n	154	34	19		5	69
Arm Circumference (cm)						
Age and sex adjusted	-0.5756	0.3939	0.4715	.	-0.8728	15.3534
Fully adjusted	-0.6033	0.3140	0.7221	.	-1.0386	15.3463
Mean Triceps Skinfold (mm)						
Age and sex adjusted	0.1687	0.5929	0.5794	.	0.2627	6.1420
Fully adjusted	-0.0639	0.2366	1.2110	.	0.4828	6.2238
Mean Subscapular Skinfold (mm)						
Age and sex adjusted	0.2274	0.9388	0.4819	.	0.2373	4.4541
Fully adjusted	0.1550	0.7534	1.1803	.	0.2104	4.4366
n	154	35	20		5	63

(continued)

Table VI-C-2.4 (continued)

	Age at WIC Inception (m)					
	Prenatal	0 thru 3	4 thru 11	12+	Unknown	Controls
<u>For Children Only</u>						
Weight (kg)						
Age sex adjusted	-0.0201	-0.2217	-0.4120	-0.0492	-0.1811	13.5832
Fully adjusted	-0.0379	-0.1978	-0.3135	-0.0259	-0.0688	13.5846
Height/Length (cm)						
Age and sex adjusted	-0.5515	-0.9436	-1.0288	-0.9238	-0.7599	90.6308
Fully adjusted	-0.7330	-1.1019	-0.7710	-0.8533	-0.6062	90.7204
Quetelet's Index (kg*100/cm ²)						
Age and sex adjusted	0.0021	0.0014	-0.0012	0.0017	-0.0004	0.1653
Fully adjusted	0.0024	0.0023	-0.0010	0.0019	0.0002	0.1650
Head Circumference (cm)						
Age and sex adjusted	0.0892	-0.0309	-0.1035	-0.2768	-0.1380	48.4786
Fully adjusted	0.0862	-0.0121	0.0389	-0.2650	-0.1139	48.4689
n	857	191	71	105	43	612
Arm Circumference (cm)						
Age and sex adjusted	-0.0864	-0.2957	-0.1107	-0.0497	-0.7011	16.1328
Fully adjusted	-0.0350	-0.2557	-0.1039	-0.0506	-0.6332	16.1035
Mean Triceps Skinfold (mm)						
Age and sex adjusted	-0.2153	-0.2073	-0.4240	0.0861	-0.0543	6.5177
Fully adjusted	-0.1654	-0.2054	-0.4484	-0.0466	-0.0423	6.5027
Mean Subscapular Skinfold (mm)						
Age and sex adjusted	-0.1870	-0.0579	-0.2095	0.2193	-0.1409	4.4710
Fully adjusted	-0.1629	0.0029	-0.2942	0.1398	-0.0733	4.4596
n	828	190	67	99	41	597

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aAge adjustment includes second order term (age²) to account for nonlinearity of relationship. See Vol. II, Table VI-1 for full covariate list. Values are differences from the control group means.

Table VI-C-2.5

Duration of WIC Benefits and Growth by Age of WIC Inception

	Age of WIC inception (m) ^a			
	Prenatal	0-3	4-11	12+
Weight (kg)				
Age and sex adjusted	-0.003	-0.017	-0.039*	-0.004
Fully adjusted	-0.001	-0.016	-0.030	-0.000
Length/height (cm)				
Age and sex adjusted	-0.022	-0.046	-0.082	-0.086
Fully adjusted	-0.023	-0.047	-0.066	-0.084
Quetelet's Index (kg x 100/cm ²)				
Age and sex adjusted	0.00004	-0.00005	-0.00016	0.00013
Fully adjusted	0.00007	-0.00003	-0.00010	0.00019
Head circumference (cm)				
Age and sex adjusted	-0.009	0.020	-0.021	-0.014
Fully adjusted	-0.008	0.019	-0.018	-0.014
Arm circumference (cm)				
Age and sex adjusted	-0.003	-0.019*	-0.022	0.017
Fully adjusted	-0.000	-0.018*	-0.017	0.022
Triceps skinfold (mm)				
Age and sex adjusted	-0.012	-0.019	-0.043	0.025
Fully adjusted	-0.012	-0.021	-0.046	0.035
Subscapular skinfold (mm)				
Age and sex adjusted	0.001	-0.009	-0.027	-0.007
Fully adjusted	0.002	-0.007	-0.028	-0.002

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aAge adjustment includes second-order term (age²) to account for nonlinearity of relationship. See Vol. II, Table VI-1 for full covariate list.

Table VI-C-2.6
Frequency of Aberrant Growth

	Age at WIC Inception (m)					
	Prenatal	0-3	4-11	12+	Unknown	Control
Weight <10 Percentile						
Age And Sex Adjusted ^a	0.0135	0.0286	0.0358	0.0529	0.0018	0.1220
Fully Adjusted	0.0047	0.0131	0.0243	0.0442	-0.0084	0.1290
Weight >90 Percentile						
Age And Sex Adjusted	-0.0218	-0.0213	-0.0478	-0.0109	-0.0565	0.1394
Fully Adjusted	-0.0298	-0.0259	-0.0512	-0.0071	-0.0562	0.1435
Height/Length <10 Percentile						
Age And Sex Adjusted	0.0296	0.0390	0.0731	0.0427	0.0428	0.1207
Fully Adjusted	0.0325	0.0376	0.0682	0.0384	0.0306	0.1199
Height/Length >90 Percentile						
Age And Sex Adjusted	0.0011	0.0111	-0.0295	-0.0260	0.0207	0.1049
Fully Adjusted	-0.0128	-0.0014	-0.0279	-0.0213	0.0176	0.1124
Head Circumference <10 Percentile						
Age And Sex Adjusted	-0.0101	0.0130	-0.0125	-0.0048	-0.0147	0.2817
Fully Adjusted	-0.0126	0.0167	-0.0193	-0.0071	-0.0093	0.2825
Head Circumference >90 Percentile						
Age And Sex Adjusted	0.0287	0.0071	0.0095	-0.0216	0.0121	0.0880
Fully Adjusted	0.0183	0.0013	0.0110	-0.0182	0.0046	0.0936
Arm Circumference <10 Percentile						
Age And Sex Adjusted	0.0495	0.0273	-0.0194	-0.0123	0.1040	0.1543
Fully Adjusted	0.0441	0.0213	-0.0233	-0.0182	0.0903	0.1582
Arm Circumference >90 Percentile						
Age And Sex Adjusted	-0.0051	-0.0055	0.0373	-0.0387	-0.0403	0.1061
Fully Adjusted	-0.0008	-0.0001	0.0324	-0.0357	-0.0303	0.1033
Mean Tricep Skinfold <10 Percentile						
Age And Sex Adjusted	0.0385	0.0202	0.0583	0.0223	-0.0089	0.6182
Fully Adjusted	0.0363	0.0227	0.0629	0.0479	-0.0134	0.6177
Mean Tricep Skinfold >90 Percentile						
Age And Sex Adjusted	0.0014	0.0039	-0.0117	0.0105	0.0061	0.0139
Fully Adjusted	-0.0000	0.0016	-0.0178	0.0076	0.0031	0.0153
Mean Subscapular Skinfold <10 Percentile						
Age And Sex Adjusted	0.0374	-0.0093	0.0097	-0.0654	0.0133	0.4572
Fully Adjusted	0.0287	-0.0368	0.0042	-0.0595	0.0006	0.4645
Mean Subscapular Skinfold >90 Percentile						
Age And Sex Adjusted	-0.0098	0.0133	-0.0187	0.0196	-0.0258	0.0448
Fully Adjusted	-0.0098	0.0156	-0.0279	0.0107	-0.0220	0.0453

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship. See Vol. II, Table VI-1 for full covariate list. Values are differences from the control group means.

Table VI-C-2.7

Frequency of Aberrant Growth for Infants and Children Only

	Age at WIC Inception (m)					
	Prenatal	0 thru 3	4 thru 11	12+	Unknown	Controls
For Infants Only						
Weight <10 Percentile						
Age and sex adjusted ^a	0.0267	-0.0583	0.0074	.	-0.1029	0.1412
Fully adjusted	-0.0446	-0.0381	-0.0271	.	-0.1490	0.1793
Weight >90 Percentile						
Age and sex adjusted	-0.1038	0.0945	-0.1139	.	-0.1873	0.2535
Fully adjusted	-0.1245	0.0612	-0.1296	.	-0.1855	0.2693
Height/Length <10 Percentile						
Age and sex adjusted	0.0311	0.0020	0.0110	.	0.0875	0.1385
Fully adjusted	0.0346	0.0262	0.0007	.	0.0944	0.1340
Height/Length >90 Percentile						
Age and sex adjusted	-0.0013	-0.0136	0.0332	.	-0.0634	0.1556
Fully adjusted	-0.0370	-0.0363	0.0350	.	-0.1864	0.1789
Head Circumference <10 Percentile						
Age and sex adjusted	-0.0893	0.0263	-0.0848	.	0.4425	0.2271
Fully adjusted	-0.1112	0.0215	0.0088	.	0.4339	0.2330
Head Circumference >90 Percentile						
Age and sex adjusted	-0.0522	-0.0447	0.1106	.	-0.1375	0.1927
Fully adjusted	-0.0439	-0.0379	0.1196	.	-0.1214	0.1870
n	154	34	19		5	69
Arm Circumference <10 Percentile						
Age and sex adjusted	0.1447	-0.0590	-0.1368	.	0.1950	0.2431
Fully adjusted	0.1685	-0.0135	-0.1923	.	0.3542	0.2287
Arm Circumference >90 Percentile						
Age and sex adjusted	-0.0141	0.1333	0.0871	.	-0.0399	0.0655
Fully adjusted	-0.0334	0.1271	0.1142	.	-0.0534	0.0740
Mean Triceps Skinfold <10 Percentile						
Age and sex adjusted	0.0181	-0.0991	-0.0823	.	0.0169	0.5207
Fully adjusted	0.1085	-0.0359	-0.1433	.	0.0514	0.4746
Mean Triceps Skinfold >90 Percentile						
Age and sex adjusted	0.0166	0.0004	-0.0006	.	0.0048	0.0016
Fully adjusted	0.0147	-0.0010	0.0143	.	0.0109	0.0014
Mean Subscapular Skinfold <10 Percentile						
Age and sex adjusted	-0.0020	-0.0642	-0.0295	.	0.0007	0.3877
Fully adjusted	-0.0154	-0.0090	-0.2139	.	-0.0375	0.4089
Mean Subscapular Skinfold >90 Percentile						
Age and sex adjusted	0.0211	0.0964	0.0303	.	-0.0119	0.0134
Fully adjusted	0.0234	0.1070	0.0775	.	0.0043	0.0056
n	154	35	20		5	63

(continued)

Table VI-C-2.7 (continued)

	Age at WIC Inception (m)					
	Prenatal	0 thru 3	4 thru 11	12+	Unknown	Controls
Weight <10 Percentile						
Age and sex adjusted	0.0102	0.0393	0.0378	0.0543	0.0189	0.1202
Fully adjusted	0.0064	0.0257	0.0227	0.0501	0.0097	0.1236
Weight >90 Percentile						
Age and sex adjusted	-0.0091	-0.0416	-0.0265	-0.0063	-0.0540	0.1227
Fully adjusted	-0.0159	-0.0445	-0.0148	-0.0029	-0.0506	0.1254
Height/Length <10 Percentile						
Age and sex adjusted	0.0284	0.0400	0.0849	0.0458	0.0429	0.1189
Fully adjusted	0.0290	0.0385	0.0719	0.0409	0.0216	0.1199
Height/Length >90 Percentile						
Age and sex adjusted	-0.0005	0.0134	-0.0402	-0.0254	0.0200	0.0982
Fully adjusted	-0.0127	0.0008	-0.0268	-0.0211	0.0272	0.1048
Head Circumference <10 Percentile						
Age and sex adjusted	0.0021	0.0068	-0.0016	0.0003	-0.0609	0.2915
Fully adjusted	0.0002	0.0129	-0.0264	-0.0037	-0.0608	0.2930
Head Circumference >90 Percentile						
Age and sex adjusted	0.0395	0.0143	-0.0147	-0.0155	0.0159	0.0739
Fully adjusted	0.0286	0.0083	-0.0050	-0.0141	0.0126	0.0789
n	857	191	71	105	43	612
Arm Circumference <10 Percentile						
Age and sex adjusted	0.0312	0.0433	0.0204	-0.0151	0.1002	0.1405
Fully adjusted	0.0255	0.0401	0.0062	-0.0173	0.0791	0.1445
Arm Circumference >90 Percentile						
Age and sex adjusted	-0.0024	-0.0306	0.0254	-0.0392	-0.0384	0.1117
Fully adjusted	0.0038	-0.0222	0.0253	-0.0353	-0.0301	0.1076
Mean Triceps Skinfold <10 Percentile						
Age and sex adjusted	0.0419	0.0456	0.0963	0.0209	-0.0220	0.6339
Fully adjusted	0.0312	0.0457	0.0920	0.0430	-0.0303	0.6379
Mean Triceps Skinfold >90 Percentile						
Age and sex adjusted	-0.0014	0.0045	-0.0138	0.0096	0.0070	0.0159
Fully adjusted	-0.0029	0.0007	-0.0195	0.0063	0.0030	0.0175
Mean Subscapular Skinfold <10 Percentile						
Age and sex adjusted	0.0408	0.0002	0.0202	-0.0614	0.0128	0.4700
Fully adjusted	0.0286	-0.0307	0.0261	-0.0565	0.0001	0.4786
Mean Subscapular Skinfold >90 Percentile						
Age and sex adjusted	-0.0135	-0.0025	-0.0307	0.0154	-0.0267	0.0490
Fully adjusted	-0.0148	-0.0013	-0.0428	0.0053	-0.0267	0.0505
n	828	190	67	99	41	597

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aAge adjustment includes second order term (age²) to account for nonlinearity of relationship. See Vol. II, Table VI-1 for full covariate list. Values are differences from the control group means.

Table VI-C-3.1

WHO-Recommended NCHS/Fels Growth Tables Weight (kg) for Age

	Centile							
Age (months)	5	10	25	50	75	90	95	Median
<u>For boys</u>								
12	8.5	8.9	9.5	10.2	10.9	11.6	12.0	10.15
24	10.5	10.9	11.6	12.3	13.5	14.5	15.1	12.34
28	11.0	11.5	12.3	13.1	14.3	15.3	16.0	13.13
36	12.0	12.6	13.6	14.6	15.9	16.9	17.6	14.63
48	13.6	14.3	15.4	16.7	18.1	19.3	20.1	16.69
60	15.2	16.0	17.2	18.7	20.3	21.8	22.6	18.67
<u>For girls</u>								
12	7.8	8.2	8.8	9.5	10.2	10.9	11.2	9.53
24	9.9	10.3	11.0	11.8	12.7	13.6	14.1	11.80
28	10.5	11.0	11.8	12.6	13.7	14.7	15.3	12.64
36	11.7	12.2	13.1	14.1	15.4	16.6	17.3	14.10
48	13.2	13.8	14.8	16.0	17.6	19.0	19.9	15.96
60	14.5	15.2	16.4	17.7	19.5	21.1	22.2	17.67

Table VI-C-3.2

WHO-Recommended NCHS/Fels Growth Tables Length/Height (cm) for Age

Age (months)	Centile							Median
	5	10	25	50	75	90	95	
<u>For boys</u>		<u>Length centile</u>						
12	71.6	72.6	74.3	76.1	77.9	79.5	80.5	76.08
24	82.1	83.3	85.4	87.6	89.9	92.0	93.2	87.65
28	85.2	86.4	88.5	90.8	93.1	95.2	96.4	90.80
		<u>Height centile</u>						
24	80.4	81.5	83.4	85.6	87.7	89.7	90.8	85.59
28	83.2	84.5	86.6	88.9	91.2	93.2	94.5	88.86
36	88.4	90.0	92.5	94.9	97.5	99.8	101.2	94.92
48	95.9	97.5	100.1	102.9	105.8	108.4	110.0	102.95
60	102.4	104.0	106.8	109.9	113.0	115.8	117.5	109.93
<u>For girls</u>		<u>Length centile</u>						
12	69.6	70.7	72.4	74.3	76.2	77.9	79.0	74.30
24	81.1	82.3	84.3	86.5	88.7	90.7	91.9	86.47
28	84.2	85.5	87.5	89.8	92.0	94.1	95.3	89.77
		<u>Height centile</u>						
24	79.2	80.4	82.3	84.5	86.7	88.6	89.8	84.49
28	82.3	83.5	85.6	87.9	90.2	92.2	93.5	87.87
36	87.9	89.2	91.6	93.9	96.4	98.7	100.0	93.91
48	95.0	96.4	98.9	101.6	104.4	106.8	108.3	101.63
60	101.1	102.7	105.4	108.4	111.4	114.0	115.7	108.38

Table VI-C-3.3

WHO-Recommended NCHS/Fels Growth Tables Head Circumference (cm) for Age

Age (months)	Centile							Median
	5	10	25	50	75	90	95	
<u>For boys</u>								
12	44.8	45.3	46.1	47.0	47.9	48.7	49.2	47.05
24	47.2	47.6	48.4	49.2	50.2	51.0	51.6	49.21
28	47.8	48.2	48.9	49.7	50.7	51.6	52.1	49.70
36	48.6	49.0	49.8	50.5	51.5	52.3	52.9	50.47
<u>For girls</u>								
12	43.7	44.1	44.8	45.6	46.4	47.2	47.6	45.63
24	46.1	46.5	47.3	48.1	48.8	49.5	50.0	48.06
28	46.7	47.1	47.8	48.6	49.3	50.0	50.4	48.55
36	47.5	47.9	48.6	49.3	50.1	50.8	51.2	49.26

Table VI-C-3.4

NCHS Percentiles for Arm Circumference (cm) for Age

Age (years)	Centile							Mean
	5	10	25	50	75	90	95	
<u>For boys</u>								
1	14.1	14.5	15.0	15.8	17.0	17.7	18.6	16.0
2	14.1	14.6	15.4	16.1	17.1	17.8	18.8	16.3
3	14.9	15.2	15.9	16.5	17.5	18.2	19.0	16.8
4	14.7	15.4	16.2	17.1	18.0	18.6	19.2	17.1
5	15.6	16.0	16.7	17.7	18.7	19.6	20.9	17.9
<u>For girls</u>								
1	13.7	14.2	14.8	15.6	16.3	17.0	17.7	15.6
2	14.2	14.5	15.2	16.0	16.7	17.5	18.5	16.1
3	14.3	15.0	15.7	16.7	17.4	18.1	18.8	16.6
4	14.8	15.2	16.0	16.7	17.6	18.5	19.1	16.8
5	15.2	15.6	16.4	17.3	18.2	19.7	21.5	16.6

Table VI-C-3.5

NCHS Percentiles for Triceps Skinfold (mm) for Age

Age (years)	Centile							Mean
	5	10	25	50	75	90	95	
<u>For boys</u>								
1	6.0	7.0	8.0	10.0	12.0	15.0	16.0	10.4
2	6.0	6.5	8.0	10.0	12.0	13.5	15.0	10.0
3	6.5	7.0	8.0	10.0	11.0	13.0	14.5	9.9
4	5.0	6.5	8.0	9.0	11.0	12.5	14.0	9.4
5	5.0	6.0	7.0	9.0	11.0	13.5	15.0	9.5
<u>For girls</u>								
1	6.0	6.5	8.0	10.0	12.0	14.0	15.0	10.1
2	7.0	7.5	9.0	10.0	12.0	14.0	15.0	10.5
3	6.0	7.0	9.0	11.0	12.5	14.0	15.0	10.9
4	7.0	7.5	8.0	10.0	12.0	14.0	15.0	10.5
5	6.0	7.0	8.0	10.0	12.0	15.0	17.5	10.5

Table VI-C-3.6

NCHS Percentiles for Subscapular Skinfold (mm) for Age

Age (years)	Centile							Mean
	5	10	25	50	75	90	95	
<u>For boys</u>								
1	4.0	4.0	5.0	6.0	7.0	8.5	10.0	6.2
2	3.0	4.0	4.5	5.0	6.5	8.0	10.0	5.7
3	3.5	4.0	4.0	5.0	6.0	7.0	9.5	5.4
4	3.0	3.5	4.0	5.0	6.0	7.0	7.0	5.1
5	3.0	3.5	4.0	5.0	6.0	7.0	8.0	5.3
<u>For girls</u>								
1	4.0	4.0	5.0	6.0	8.0	9.0	9.0	6.2
2	4.0	4.0	5.0	6.0	7.0	9.0	10.0	6.2
3	4.0	4.0	4.5	5.5	6.5	8.0	9.0	5.8
4	3.5	4.0	4.5	5.0	6.0	8.0	9.0	5.6
5	3.5	4.0	4.0	5.0	6.5	9.0	15.0	6.2

Table VI-C-3.7

WHO Percentiles for Mean Weight, Length
and Height by Current Age and at WIC Inception

		<u>Age at WIC Inception (m)</u>					
		Prenatal	0-3	4-11	12+	DK	Controls
<hr/>							
<u>Current Age (m)</u>							
	<u>Weight centile</u>						
0-11	58.0	76.5	59.4	-	64.4*	62.8	
12-23	54.5	50.4	43.9	59.8	85.3	59.7	
24-35	50.3	55.7*	50.5	47.9	72.0	45.6	
36-47	50.5*	32.0	45.3*	41.0	42.4	47.6	
48-59	41.5	49.0	19.7	57.7	51.7	49.1	
	<u>Length centile</u>						
0-11	51.5	59.0	62.8	-	78.5	66.2	
12-23	41.1	45.5	43.6	47.8	27.2	44.5	
	<u>Height centile*</u>						
24-35	39.2	36.0**	35.8	46.5*	68.7	53.5	
36-47	43.2*	23.8	34.0	25.3	54.9*	48.0	
48-59	33.0	45.3	30.6	41.4	23.9	42.2	
	<u>n</u>						
0-11	151	34	19	5	5	76	285
12-23	330	57	33	22	14	197	653
24-35	258	59	16	22	9	162	526
36-47	146	51	12	32	8	128	377
48-59	108	<u>24</u>	<u>8</u>	<u>29</u>	<u>12</u>	<u>120</u>	<u>301</u>
Total	993	225	88	105	48	683	2,142

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aPercentile for reference group (controls in far right column; all other values are compared to reference group for that row.

Table VI-C-4.1

Anthropometric Indices and Sex of Child

Sex of Child	Age at WIC Inception (m)				Unknown	Controls
	Prenatal	0-3	4-11	12+		
<u>Adjusted for Age of Child</u>						
Weight (kg)						
Male	-0.1144	-0.1926	-0.6924*	0.1081	-0.1517	13.2716
Female	-0.0247	-0.0699	-0.0589	-0.1204	-0.2363	12.6421***
		MSE =	3.784629			
Height (cm)						
Male	-0.7013	-1.4626**	-1.5636	-0.9019	-1.1500	88.6745
Female	-0.6051	-0.3564	-0.3231	-0.8366	0.0278	87.4306**
		MSE =	27.13319			
Quetelet's Index (kg X 100/cm ²)						
Male	0.0014	0.0055*	-0.0024	0.0032	0.0024	0.1681
Female	0.0024	0.0006	0.0003	0.0009	-0.0050	0.1649
		MSE =	0.000545681			
Head Circumference (cm)						
Male	0.1223	0.3836	0.0840	-0.0222	0.0272	48.4721
Female	-0.0156	-0.5695*	-0.1352	-0.4966	-0.4376	47.5058***
		MSE =	4.334921			
Arm Circumference (cm)						
Male	-0.3193**	-0.2461	-0.0729	0.1894	-1.2458**	16.1990
Female	0.0052	-0.1039	0.1582	-0.1579	-0.0663	15.8455**
		MSE =	2.526136			
Triceps Skinfold (mm)						
Male	-0.2408	-0.0406	-0.4148	0.1972	-0.1959	6.3479
Female	-0.0926	-0.1213	-0.0382	0.1107	0.1977	6.5962
		MSE =	5.97935			
Subscapular Skinfold (mm)						
Male	-0.2009	0.0737	-0.0460	0.6540*	-0.0335	4.3531
Female	-0.0852	0.1052	-0.1146	0.0578	-0.2057	4.6066
		MSE =	3.136372			
<u>Adjusted for All Covariates</u>						
Weight (kg)						
Male	-0.1070	-0.2311	-0.5867	0.0476	-0.0096	13.2553
Female	-0.0573	-0.0101	-0.0582	-0.0356	-0.2022	12.6566*
		MSE =	3.588989			
Height (cm)						
Male	-0.9236**	-1.7643**	-1.3935	-1.0111	-1.1479	88.8054
Female	-0.7882*	-0.4739	-0.3674	-0.6077	-0.0510	87.5190*
		MSE =	25.37635			
Quetelet's Index (kg X 100/cm ²)						
Male	0.0022	0.0062*	-0.0017	0.0030	0.0037	0.1675
Female	0.0027	0.0019	0.0002	0.0013	-0.0039	0.1647
		MSE =	0.0005408902			
Head Circumference (cm)						
Male	0.0982	0.3561	0.1979	-0.0663	0.0101	48.4807
Female	-0.0192	-0.5638*	-0.0786	-0.4512	-0.4463	47.5051
		MSE =	4.168705			

(continued)

Table VI-C-4.1 (continued)

Sex of Child	Age at WIC Inception (m)				Unknown	Controls	
	Prenatal	0-3	4-11	12+			
Arm Circumference (cm)							
Male	-0.2516*	-0.2255	-0.0922	0.2496	-1.1370**	16.1584	
Female	0.0300	-0.0610	0.1127	-0.1840	-0.0504	15.8350*	
		MSE =	2.494216				
Triceps Skinfold (mm)							
Male	-0.2210	-0.0394	-0.4184	0.1560	-0.0910	6.3596	
Female	-0.0720	-0.1284	-0.1592	-0.0816	0.0828	6.5842	
		MSE =	5.790975				
<u>Adjusted for all Covariates</u>							
Subscapular Skinfold (mm)							
Male	-0.1734	0.1326	-0.0749	0.5809	0.1018	4.3468	
Female	-0.0822	0.1459	-0.1913	-0.0206	-0.2155	4.5964	
		MSE =	3.052795				
<u>Weight, Height, Quetelet's Index, Head Circumference</u>							
<u>n</u>	<u>Prenatal</u>	<u>0-3</u>	<u>4-11</u>	<u>12+</u>	<u>Unknown</u>	<u>Controls</u>	<u>Total</u>
Male	509	111	43	42	25	51	1,081
Female	484	114	45	63	23	332	1,061
Total	993	225	88	105	48	683	2,142
<u>Arm Circumference, Triceps Skinfold, Subscapular Skinfold</u>							
Male	505	107	44	35	25	342	1,058
Female	477	118	43	64	21	328	1,051
Total	982	225	87	99	46	670	2,109

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship.

See Vol. II, Table VI-1 for full covariate list. Values are differences from the control group means.

Table VI-C-4.2

Frequency of Aberrant Growth by Sex of Child

	Age at WIC Inception (m)					
Sex of Child	Prenatal	0-3	4-11	12+	Unknown	Controls
<u>Adjusted for Age of Child</u>						
Weight <10 Percentile						
Male	0.0178	0.0390	0.1098*	0.0477	-0.0761	0.1144
Female	0.0089	0.0182	-0.0385	0.0548	0.0866	0.1301
	MSE =	0.117129				
Weight >90 Percentile						
Male	-0.0308	-0.0401	-0.0853	0.0100	-0.0639	0.1410
Female	-0.0122	-0.0023	-0.0097	-0.0222	-0.0487	0.1374
	MSE =	0.1070681				
Height <10 Percentile						
Male	0.0524*	0.0612	0.1288*	0.0375	0.0368	0.1195
Female	0.0052	0.0158	0.0161	0.0404	0.0497	0.1227
	MSE =	0.1234482				
Height >90 Percentile						
Male	0.0083	0.0066	-0.0065	-0.0182	-0.0127	0.0928
Female	-0.0067	0.0151	-0.0527	-0.0325	0.0571	0.1174
	MSE =	0.09386986				
Head Circumference <10 Percentile						
Male	-0.0281	-0.0396	0.0030	-0.0597	-0.0239	0.3003
Female	0.0089	0.0657	-0.0270	0.0380	-0.0050	0.2621
	MSE =	0.1980882				
Head Circumference >90 Percentile						
Male	0.0104	0.0034	0.0153	-0.0465	0.0223	0.0894
Female	0.0480*	0.0116	0.0044	-0.0012	0.0007	0.0861
	MSE =	0.09093492				
Arm Circumference <10 Percentile						
Male	0.0767**	0.0407	-0.0025	-0.0177	0.1745*	0.1406
Female	0.0207	0.0127	-0.0373	-0.0172	0.0226	0.1688
	MSE =	0.1450712				
Arm Circumference >90 Percentile						
Male	-0.0023	-0.0056	0.0307	-0.0102	-0.0502	0.0893
Female	-0.0081	-0.0056	0.0440	-0.0551	-0.0282	0.1230
	MSE =	0.09148466				
Triceps Skinfold <10 Percentile						
Male	0.0516	-0.0248	0.1042	-0.0127	0.0071	0.6383
Female	0.0243	0.0604	0.0109	0.0405	-0.0273	0.5982
	MSE =	0.228734				
Triceps Skinfold >90 Percentile						
Male	0.0010	-0.0037	-0.0126	0.0082	-0.0171	0.0139
Female	0.0019	0.0111	-0.0108	0.0125	0.0334	0.0139
	MSE =	0.01493731				
Subscapular Skinfold <10 Percentile						
Male	0.0496	-0.0093	0.0274	-0.1882*	-0.0395	0.4687
Female	0.0248	-0.0092	-0.0083	0.0009	0.0760	0.4457
	MSE =	0.2465075				

(continued)

Table VI-C-4.2 (continued)

Sex of Child	Age at WIC Inception (m)				Unknown	Controls
	Prenatal	0-3	4-11	12+		
Subscapular Skinfold >90 Percentile						
Male	-0.0185	0.0242	-0.0268	0.0538	-0.0557	0.0516
Female	-0.0005	0.0040	-0.0101	0.0021	0.0094	0.0377
	MSE =		0.03945756			
Weight <10 Percentile						
Male	0.0067	0.0301	0.0913	0.0463	-0.0894	0.1242
Female	0.0026	-0.0042	-0.0424	0.0418	0.0801	0.1339
	MSE =		0.1134403			
Weight >90 Percentile						
Male	-0.0372	-0.0527	-0.0911	0.0052	-0.0612	0.1460
Female	-0.0214	0.0012	-0.0114	-0.0121	-0.0511	0.1404
	MSE =		0.1043485			
Height <10 Percentile						
Male	0.0581*	0.0625	0.1200*	0.0479	0.0296	0.1157
Female	0.0051	0.0117	0.0161	0.0256	0.0327	0.1249
	MSE =		0.1209901			
Height >90 Percentile						
Male	-0.0041	-0.0133	-0.0032	-0.0286	-0.0146	0.1000
Female	-0.0216	0.0099	-0.0522	-0.0170	0.0533	0.1249
	MSE =		0.09016172			
Head Circumference >10 Percentile						
Male	-0.0243	-0.0268	-0.0010	-0.0569	-0.0201	0.2969
Female	0.0001	0.0598	-0.0361	0.0310	0.0030	0.2673
	MSE =		0.1913115			
Head Circumference >90 Percentile						
Male	-0.0009	-0.0007	0.0215	-0.0534	0.0096	0.0965
Female	0.0382	0.0036	0.0013	0.0088	-0.0011	0.0905
	MSE =		0.09028214			
Arm Circumference <10 Percentile						
Male	0.0674*	0.0342	-0.0150	-0.0325	0.1555*	0.1479
Female	0.0192	0.0078	-0.0310	-0.0174	0.0154	0.1691
	MSE =		0.1426218			
Arm Circumference >90 Percentile						
Male	0.0058	-0.0014	0.0290	-0.0055	-0.0348	0.0850
Female	-0.0075	0.0008	0.0355	-0.0538	-0.0242	0.1218
	MSE =		0.09110906			
Triceps Skinfold <10 Percentile						
Male	0.0475	-0.0231	0.1029	0.0047	-0.0188	0.6384
Female	0.0247	0.0640	0.0231	0.0718	-0.0056	0.5966
	MSE =		0.2248782			
Triceps Skinfold >90 Percentile						
Male	-0.0012	-0.0074	-0.0196	0.0089	-0.0208	0.0167
Female	0.0014	0.0100	-0.0160	0.0081	0.0312	0.0138
	MSE =		0.01487317			

(continued)

Table VI-C-4.2 (continued)

	Age at WIC Inception (m)						
Sex of Child	Prenatal	0-3	4-11	12+	Unknown	Controls	
Subscapular Skinfold <10 Percentile							
Male	0.0384	-0.0335	0.0161	-0.1694	-0.0680	0.4781	
Female	0.0178	-0.0398	-0.0062	-0.0002	0.0828	0.4510	
	MSE =		0.2440719				
Subscapular Skinfold >90 Percentile							
Male	-0.0184	0.0264	-0.0402	0.0466	-0.0479	0.0541	
Female	-0.0004	0.0063	-0.0161	-0.0074	0.0078	0.0362	
	MSE =		0.03857084				
<u>Weight, Height, Head Circumference</u>							
<u>n</u>	<u>Prenatal</u>	<u>0-3</u>	<u>4-11</u>	<u>12+</u>	<u>Unknown</u>	<u>Controls</u>	<u>Total</u>
Male	519	111	45	42	25	357	1,099
Female	493	114	45	63	23	335	1,073
Total	1,012	225	90	105	48	692	2,142
<u>Arm Circumference, Triceps Skinfold, Subscapular Skinfold</u>							
Male	505	107	44	35	25	342	1,058
Female	477	118	43	64	21	328	1,051
Total	982	225	87	99	46	670	2,109

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship. See Vol. II, Table VI-1 for full covariate list. Values are differences from the control group means.

Table VI-C-4.3

Anthropometric Indices and Age of Child^a

	Age at WIC Inception (m)					
Age of Child	Prenatal	0-3	4-11	12+	Unknown	Controls
<u>Adjusted for Sex of Child</u>						
Weight (kg)						
12-23	-0.2485	-0.3706	-0.3830	0.2012	-1.2325*	11.3150
1-11	-0.3424	0.5550	0.0806	.	-0.6787	9.1076***
24-35	0.2433	0.4116	0.3456	0.1886	1.2453	12.9713***
36-47	0.1185	-0.7631*	-0.7373	-0.6503	-0.1032	15.2579***
48-59	-0.6244*	-0.0591	-1.6850*	0.5146	-0.2321	17.3882***
	MSE = 4.090918					
Height (cm)						
12-23	-0.5500	-0.0452	-0.2724	0.6400	-2.2503	80.6830
1-11	-1.4524	0.0955	0.6528	.	-0.4699	72.0152***
24-35	-1.0333	-1.3141	-0.7917	0.1402	2.0995	89.6275***
36-47	-0.3028	-2.1945*	-3.0814	-2.5004*	2.0441	97.7108***
48-59	-1.5315*	0.4129	-0.8860	-0.1320	-3.3573*	104.9538***
	MSE = 31.90687					
Quetelet's Index (kg X 100/cm²)						
12-23	-0.0012	-0.0058	-0.0044	0.0003	-0.0083	0.1742
1-11	0.0013	0.0114*	-0.0010	.	-0.0087	0.1749
24-35	0.0073**	0.0123**	0.0068	0.0013	0.0078	0.1620***
36-47	0.0028	0.0001	0.0019	0.0007	-0.0083	0.1599***
48-59	-0.0005	-0.0017	-0.0128	0.0042	0.0076	0.1577***
	MSE = 0.0005426087					
Head Circumference (cm)						
12-23	-0.0561	-0.5194	-0.0433	0.0927	-1.0254	47.0421
1-11	-0.0521	-0.0009	0.6222	.	-0.9274	44.6869***
24-35	0.0416	0.3545	1.0109	-0.1065	0.1699	48.4603***
36-47	0.1452	-0.2468	-1.0704	-1.2097**	-0.3107	49.7469**
48-59	0.0823	0.3722	-1.2916	0.4273	0.6881	50.2462***
	MSE = 4.39588					
Arm Circumference (cm)						
12-23	-0.2720	-0.6458**	-0.2332	0.0628	-0.8154	15.7524
1-11	-0.6395**	0.4033	0.4589	.	-0.7913	15.3862
24-35	0.1751	-0.0202	0.5747	-0.1253	0.1381	15.9538
36-47	-0.1223	-0.3261	-0.6214	-0.5241	-1.0855	16.6168***
48-59	-0.1762	-0.0801	-0.4247	0.4735	-1.0098*	16.6621***
	MSE = 2.5307					
Triceps Skinfold (mm)						
12-23	-0.1110	-0.5814	-0.2446	0.4061	0.5071	6.3666
1-11	0.1803	0.5979	0.5983	.	0.3677	6.1358
24-35	-0.1174	0.2242	-0.6087	-1.0172	-1.3379	6.4343
36-47	-0.4089	-0.4037	-0.1141	-0.3782	-0.7694	6.8455
48-59	-0.3993	-0.0473	-1.0274	0.9710	0.8556	6.5426
	MSE = 5.956528					
Subscapular Skinfold (mm)						
12-23	-0.2765	-0.5072	0.0178	0.7516	-0.5499	4.7296
1-11	0.2000	0.9753**	0.5277	.	0.1550	4.4687
24-35	-0.0338	0.2071	-0.7280	-0.2161	0.2887	4.3794
36-47	-0.1625	0.1707	-0.2928	-0.1912	-0.0371	4.3787
48-59	-0.2548	-0.0979	-0.1283	0.5486	-0.0851	4.1744***
	MSE = 3.132551					

(continued)

Table VI-C-4.3 (continued)

	Age at WIC Inception (m)						
Age of Child	Prenatal	0-3	4-11	12+	Unknown	Controls	
<u>Adjusted for All Covariates</u>							
Weight (kg)							
12-23	-0.2410	-0.3343	-0.4295	0.1023	-1.1257*	11.3763	
1-11	-0.3034	0.4886	-0.0201	.	-0.6729	9.1530***	
24-35	0.1980	0.4438	0.4458	0.2644	1.3181	12.9961***	
36-47	0.0951	-0.7322*	-0.3028	-0.5157	0.1208	15.2042***	
48-59	-0.6424*	-0.1158	-1.7155*	0.5479	-0.1695	17.2167***	
		MSE = 3.903295					
Height (cm)							
12-23	-0.6692	-0.1758	-0.2996	0.7341	-2.1380	80.8789	
1-11	-1.6588*	-0.1909	0.0067	.	-1.2372	72.3360***	
24-35	-1.2163*	-1.3424	-0.6085	0.0967	2.0795	89.6921***	
36-47	-0.4848	-2.4659**	-2.0421	-2.1945*	2.4137	97.7243***	
48-59	-1.7328*	-0.0627	-1.3885	0.0503	-3.4003*	104.7456***	
		MSE = 30.32802					
Quetelet's Index (kg X 100/cm²)							
12-23	-0.0006	-0.0045	-0.0050	-0.0010	-0.0074	0.1741	
1-11	0.0030	0.0117*	0.0001	.	-0.0055	0.1739	
24-35	0.0073**	0.0129**	0.0071	0.0027	0.0089	0.1620***	
36-47	0.0029	0.0016	0.0037	0.0009	-0.0071	0.1594***	
48-59	-0.0002	-0.0008	-0.0115	0.0042	0.0082	0.1568***	
		MSE = 0.0005385308					
Head Circumference (cm)							
12-23	-0.0674	-0.4953	0.0841	0.0450	-0.9244	47.0149	
1-11	-0.0411	-0.0352	0.5910	.	-0.9866	44.7075***	
24-35	0.0437	0.3830	1.0194	-0.1507	0.0355	48.4534***	
36-47	0.1212	-0.2984	-0.7980	-1.1122**	-0.2022	49.7608***	
48-59	0.0350	0.3420	-1.3320	0.4882	0.6003	50.2880***	
		MSE = 4.256671					
Arm Circumference (cm)							
12-23	-0.1985	-0.5887*	-0.2643	0.0039	-0.7189	15.7243	
1-11	-0.6503**	0.3683	0.3260	.	-0.8163	15.3936	
24-35	0.1831	0.0250	0.6430	-0.1097	0.2515	15.9398	
36-47	-0.0480	-0.3143	-0.6026	-0.4140	-0.9645	16.5656***	
48-59	-0.1440	-0.0389	-0.5133	0.4330	-1.0636*	16.6519***	
		MSE = 2.499908					
Triceps Skinfold (mm)							
12-23	-0.0913	-0.5460	-0.3014	0.1291	0.6696	6.3669	
1-11	0.1065	0.4595	0.4203	.	0.5267	6.1230	
24-35	-0.1528	0.1859	-0.7296	-1.1281	-1.4890	6.4464	
36-47	-0.3387	-0.4260	-0.1895	-0.2583	-0.8383	6.8342	
48-59	-0.2906	0.1609	-0.7813	0.7291	0.7720	6.5809	
		MSE = 5.780086					

(continued)

Table VI-C-4.3 (continued)

	Age at WIC Inception (m)					
Age of Child	Prenatal	0-3	4-11	12+	Unknown	Controls
Subscapular Skinfold (mm)						
12-23	-0.2525	-0.4026	-0.1275	0.5529	-0.4945	4.7496
1-11	0.1744	0.8742*	0.5582	.	0.3050	4.4601
24-35	-0.0892	0.2321	-0.7398	-0.2742	0.2961	4.4038
36-47	-0.1078	0.2140	-0.3176	-0.0830	0.0871	4.3079*
48-59	-0.1980	0.0865	-0.1592	0.3884	-0.0600	4.1676**
	MSE = 3.058382					

Weight, Height, Quetelet's Index, Head Circumference

n	Age of WIC Inception (m)						Total
	Prenatal	0-3	4-11	12+	Unknown	Controls	
12-23	330	57	33	22	14	197	653
1-11	151	34	19	0	5	76	285
24-35	258	59	16	22	9	162	526
36-47	146	51	12	32	8	128	377
48-59	108	24	8	29	12	120	301
Total	993	225	88	105	48	683	2,142

Arm Circumference, Triceps Skinfold, Subscapular Skinfold

n	Age of WIC Inception (m)						Total
	Prenatal	0-3	4-11	12+	Unknown	Controls	
12-23	319	56	33	20	13	193	634
1-11	154	35	20	0	5	73	287
24-35	252	59	16	18	9	156	510
36-47	145	52	10	32	8	130	377
48-59	112	23	8	29	11	118	301
Total	982	225	87	99	46	670	2,109

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aAge adjustment includes second order term (age²) to account for nonlinearity of relationship. See Vol. II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-C-4.4

Frequency of Aberrant Growth and Age of Child

	Age at WIC Inception (m) ^a					
Age of Child	Prenatal	0-3	4-11	12+	Unknown	Controls
<u>Adjusted for Age of Child^a</u>						
Weight <10 Percentile						
12-23	0.0010	0.0393	0.0167	0.0358	0.1126	0.1007
1-11	0.0282	-0.0508	0.0188	.	-0.1381	0.1394
24-35	0.0139	-0.0082	0.0599	0.0535	-0.1270	0.1273
36-47	-0.0276	0.0921	-0.0090	0.0553	-0.0371	0.1627
48-59	0.0698	0.0243	0.1511	0.0723	0.0670	0.1000
		MSE =	0.1173397			
Weight >90 Percentile						
12-23	-0.0314	-0.0121	-0.0051	0.0764	-0.1541	0.1514
1-11	-0.0992*	0.0709	-0.1475	.	-0.0499	0.2537*
24-35	0.0241	0.0071	-0.0171	-0.0363	0.1441	0.0788*
36-47	0.0414	-0.1008	-0.0240	-0.0403	-0.0988	0.1004
48-59	-0.0687	-0.0771	-0.1552	-0.0206	-0.0739	0.1583
		MSE =	0.1068601			
Height <10 Percentile						
12-23	0.0273	0.0615	0.0852	-0.0196	0.1572	0.0638
1-11	0.0306	0.0065	0.0176	.	0.0529	0.1380
24-35	0.0055	-0.0151	0.1327	0.0525	-0.1834	0.1819**
36-47	0.0608	0.1542**	0.0534	0.1542*	0.0195	0.1018
48-59	0.0277	-0.1032	0.0923	-0.0115	0.0974	0.1501*
		MSE =	0.1223694			
Height >90 Percentile						
12-23	0.0254	0.0981*	-0.0419	0.0051	-0.0444	0.0409
1-11	0.0084	-0.0336	0.0065	.	0.0521	0.1525**
24-35	-0.0462	-0.0388	0.0107	-0.0430	0.1584	0.1757***
36-47	0.0734*	-0.0032	0.0147	-0.0333	0.0654	0.0615
48-59	-0.0621	-0.0026	-0.1211	-0.0218	-0.0404	0.1249*
		MSE =	0.09228818			
Head Circumference <10 Percentile						
12-23	0.0427	0.1402*	-0.0343	-0.0292	0.0040	0.2109
1-11	-0.0922	0.0367	-0.0701	.	0.3714	0.2277
24-35	-0.0066	-0.0055	-0.2021	0.0825	0.0059	0.3273*
36-47	-0.0429	-0.0392	0.1282	0.0109	-0.0838	0.3334*
48-59	-0.0203	-0.1745	0.4076*	-0.0658	-0.1752	0.3417*
		MSE =	0.1976121			
Head Circumference >90 Percentile						
12-23	0.0562*	-0.0124	-0.0177	0.0001	-0.0498	0.0460
1-11	-0.0426	-0.0715	0.0739	.	0.0145	0.1905**
24-35	0.0241	0.0922*	0.0451	0.0082	0.0332	0.0788
36-47	0.0725*	-0.0110	0.0070	0.0213	-0.0672	0.0692
48-59	-0.0085	-0.0445	-0.1208	-0.0908	0.1264	0.1249*
		MSE =	0.09060392			
Arm Circumference <10 Percentile						
12-23	0.0421	0.0624	0.0115	-0.0707	-0.0154	0.1707
1-11	0.1635**	-0.0618	-0.1335	.	0.1650	0.2327
24-35	0.0190	0.0896	0.0294	0.0731	0.1257	0.0961
36-47	0.0423	-0.0076	-0.0225	0.0034	0.2508	0.1233
48-59	0.0267	0.0059	0.0786	-0.0656	0.1022	0.1695
		MSE =	0.1446111			

(continued)

Table VI-C-4.4 (continued)

	Age at WIC Inception (m) ^a					
Age of Child	Prenatal	0-3	4-11	12+	Unknown	Controls
Arm Circumference >90 Percentile						
12-23	-0.0675*	-0.1274**	-0.0215	-0.0912	-0.1475	0.1411
1-11	-0.0179	0.1332*	0.0841	.	-0.0593	0.0691
24-35	0.0719*	0.0510	0.2397**	-0.0261	0.0422	0.0707*
36-47	0.0155	-0.0082	-0.1256	-0.0983	-0.1182	0.1223
48-59	-0.0197	-0.0297	-0.1019	0.0605	0.0761	0.1101
	MSE = 0.09051853					
Triceps Skinfold <10 Percentile						
12-23	-0.0220	0.0845	0.0882	-0.0717	-0.2006	0.6717
1-11	0.0139	-0.0945	-0.0745	.	0.0657	0.5196*
24-35	0.0557	-0.0076	0.1060	0.2582*	0.1279	0.6472
36-47	0.1073	0.0815	0.0499	0.1746	0.3139	0.5551*
48-59	0.0769	0.0697	0.1021	-0.1848	-0.1878	0.6357
	MSE = 0.2262587					
Triceps Skinfold >90 Percentile						
12-23	0.0011	-0.0057	-0.0055	-0.0053	-0.0059	0.0053
1-11	0.0193	0.0002	0.0003	.	0.0009	0.0001
24-35	-0.0074	0.0150	-0.0195	-0.0203	-0.0191	0.0192
36-47	-0.0023	-0.0039	-0.0233	0.0388	-0.0226	0.0230
48-59	0.0015	0.0174	-0.0246	0.0089	0.0659	0.0254
	MSE = 0.01498606					
Subscapular Skinfold <10 Percentile						
12-23	-0.0144	0.0465	-0.1349	-0.1393	0.1048	0.4393
1-11	0.0072	-0.0708	-0.0359	.	0.0083	0.3830
24-35	0.0657	-0.0023	0.2152	0.0356	-0.1425	0.4742
36-47	0.0204	-0.0688	0.0715	0.0062	0.0899	0.5315
48-59	0.1311*	0.0179	0.1516	-0.1198	-0.0155	0.4662
	MSE = 0.246962					
Adjusted or All Covariates						
Subscapular Skinfold >90 Percentile						
12-23	-0.0103	-0.0249	0.0049	0.1243**	-0.0245	0.0257
1-11	0.0190	0.1003*	0.0358	.	-0.0154	0.0136
24-35	0.0132	0.0288	-0.0380	-0.0364	-0.0388	0.0384
36-47	-0.0357	0.0001	-0.0764	-0.0445	-0.0778	0.0771*
48-59	-0.0408	-0.0316	-0.0778	0.0275	0.0138	0.0763*
	MSE = 0.03934869					
Weight <10 Percentile						
12-23	-0.0104	0.0217	0.0103	0.0418	0.0948	0.1094
1-11	0.0042	-0.0474	0.0185	.	-0.1606	0.1495
24-35	0.0106	-0.0256	0.0534	0.0414	-0.1275	0.1308
36-47	-0.0339	0.0727	-0.0531	0.0477	-0.0541	0.1679
48-59	0.0734	0.0068	0.1396	0.0567	0.0698	0.1071
	MSE = 0.1136898					
Weight >90 Percentile						
12-23	-0.0346	-0.0145	-0.0128	0.0649	-0.1476	0.1626
1-11	-0.1131*	0.0473	-0.1783*	.	-0.0803	0.2743
24-35	0.0109	0.0014	-0.0113	-0.0414	0.1390	0.0869
36-47	0.0257	-0.1042	0.0054	-0.0197	-0.0789	0.0991
48-59	-0.0707	-0.0898	-0.1599	-0.0157	-0.0806	0.1373
	MSE = 0.1042906					
Height <10 Percentile						
1-11		0.0307	0.0105	0.0370	.	0.0781
24-35	0.0177	-0.0111	0.1380	0.0613	-0.1571	0.1758
36-47	0.0661	0.1554**	0.0051	0.1455*	0.0040	0.0971
48-59	0.0365	-0.0938	0.0954	-0.0175	0.0619	0.1494
	MSE =					

(continued)

Table VI-C-4.4 (continued)

	Age at WIC Inception (m) ^a					
Age of Child	Prenatal	0-3	4-11	12+	Unknown	Controls
<u>Adjusted for All Covariates</u>						
Height >90 Percentile						
12-23	0.0153	0.0888*	-0.0384	0.0086	-0.0362	-.0500
1-11	-0.0064	-0.0526	-0.0264	.	0.0149	0.1692**
24-35	-0.0618*	-0.0530	0.0141	-0.0466	0.1509	0.1857**
36-47	0.0575	-0.0061	0.0756	-0.0172	0.0818	0.0634
48-59	-0.0682	-0.0212	-0.1384	-0.0186	-0.0465	0.1179
	MSE = 0.0886332					
Head Circumference <10 Percentile						
12-23	0.0328	0.1419*	-0.0639	-0.0384	-0.0123	0.2203
1-11	-0.0850	0.0515	-0.0288	.	0.3966*	0.2123
24-35	-0.0004	0.0003	-0.1812	0.1175	0.0328	0.3224*
36-47	-0.0477	-0.0326	0.0819	-0.0148	-0.1070	0.3385*
48-59	-0.0118	-0.1767	0.3882*	-0.0704	-0.1475	0.3362*
	MSE = 0.190635					
Head Circumference >90 Percentile						
12-23	0.0467	-0.0196	-0.0171	0.0039	-0.0439	0.0528
1-11	-0.0515	-0.0741	0.0676	.	0.0025	0.2015***
24-35	0.0151	0.0854	0.0429	0.0056	-0.0030	0.0829
36-47	0.0583	-0.0176	0.0348	0.0178	-0.0744	0.0739
48-59	-0.0180	-0.0507	-0.1240	-0.0734	0.1312	0.1248*
	MSE = 0.09003136					
Arm Circumference <10 Percentile						
12-23	0.0255	0.0440	-0.0102	-0.0802	-0.0579	0.1880
1-11	0.1697**	-0.0525	-0.1009	.	0.1939	0.2345
24-35	0.0236	0.0869	0.0114	0.0632	0.1052	0.0955
36-47	0.0302	-0.0175	-0.0311	-0.0135	0.2448	0.1228
48-59	0.0325	0.0136	0.0944	-0.0570	0.1138	0.1562
	MSE = 0.1422546					
Arm Circumference >90 Percentile						
12-23	-0.0631*	-0.1188**	-0.0335	-0.1012	-0.1370	0.1455
1-11	-0.0174	0.1311*	0.0718	.	-0.0550	0.0737
24-35	0.0732*	0.0566	0.2509**	-0.0197	0.0474	0.0678
36-47	0.0195	-0.0062	-0.1142	-0.0841	-0.0977	0.1123
48-59	-0.0152	-0.0228	-0.1178	0.0602	0.0792	0.0999
	MSE = 0.09022188					
Triceps Skinfold <10 Percentile						
12-23	-0.0206	0.0807	0.0973	-0.0227	-0.2260	0.6659
1-11	0.0293	-0.0725	-0.0461	.	0.0404	0.5165
24-35	0.0600	0.0010	0.1164	0.2810*	0.1590	0.6440
36-47	0.0966	0.0857	0.0397	0.1471	0.3151	0.5627
48-59	0.0533	0.0481	0.0628	-0.1395	-0.1896	0.6376
	MSE = 0.2230449					
Triceps Skinfold >90 Percentile						
12-23	-0.0013	-0.0090	-0.0135	-0.0145	-0.0094	0.0089
1-11	0.0167	-0.0017	-0.0069	.	0.0011	0.0027
24-35	-0.0086	0.0122	-0.0238	-0.0230	-0.0214	0.0192
36-47	-0.0037	-0.0075	-0.0315	0.0399	-0.0246	0.0238
48-59	0.0035	0.0217	-0.0213	0.0064	0.0631	0.0238
	MSE = 0.01492517					
Subscapular Skinfold <10 Percentile						
12-23	-0.0295	0.0076	-0.1110	-0.1125	0.0852	0.4413
1-11	-0.0091	-0.0656	-0.0792	.	-0.0216	0.3866
24-35	0.0734	-0.0196	0.2139	0.0377	-0.1277	0.4705

(continued)

Table VI-C-4.4 (continued)

	Age at WIC Inception (m) ^a					
Age of Child	Prenatal	0-3	4-11	12+	Unknown	Controls
<u>Adjusted for All Covariates</u>						
<u>Subscapular Skinfold <10 Percentile</u>						
36-47	0.0030	-0.1118	0.0518	-0.0205	0.0663	0.5583*
48-59	0.1263	-0.0302	0.1314	-0.0977	-0.0239	0.4828
	MSE = 0.2446026					
<u>Subscapular Skinfold >90 Percentile</u>						
12-23	-0.0112	-0.0204	-0.0145	0.1049*	-0.0254	0.0321
1-11	0.0142	0.0957*	0.0305	.	0.0031	0.0145
24-35	0.0107	0.0323	-0.0408	-0.0422	-0.0461	0.0399
36-47	-0.0341	-0.0043	-0.0780	-0.0366	-0.0658	0.0714
48-59	-0.0342	-0.0144	-0.0841	0.0109	0.0170	0.0721
	MSE = 0.03859796					
	MSE = 3.071845					

Weight, Height, Head Circumference

n	Age of WIC Inception (m)					Controls	Total
	Prenatal	0-3	4-11	12 +	Unknown		
12-23	335	57	34	22	14	199	661
1-11	155	34	19	0	5	79	292
24-35	262	59	16	22	9	165	533
36-47	148	51	13	32	8	129	381
48-59	112	24	8	29	12	120	305
Total	1,012	225	90	105	48	692	2,172

Arm Circumference, Triceps Skinfold, Subscapular Skinfold

n	Age of WIC Inception (m)					Controls	Total
	Prenatal	0-3	4-11	12 +	Unknown		
12-23	319	56	33	20	13	193	634
1-11	154	35	20	0	5	73	287
24-35	252	59	16	18	9	156	510
36-47	145	52	10	32	8	130	377
48-59	112	23	8	29	11	118	301
Total	982	225	87	99	46	670	2,109

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship. See Table II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-C-4.5

Anthropometric Indices and Child's Birthweight

	Age at WIC Inception (m)					
Child's Birthweight	Prenatal	0-3	4-11	12+	Unknown	Controls
<u>Adjusted for Age and Sex of Child</u>						
Weight (kg)						
2501-3500	0.0086	-0.0897	-0.3287	-0.1599	-0.0686	12.7245
< 2501	-0.3234	-0.3134	-0.3909	1.0079	-1.2680	12.2710
3501+	-0.1624	0.2875	-0.3695	-0.1838	0.1605	13.6002***
Missing	0.1055	-0.8995	-1.1828	-1.4438	.	12.6213
		MSE =	3.580542			
Height (cm)						
2501-3500	-0.2792	-0.6852	-0.7883	-1.2987	-0.0139	87.6089
< 2501	-0.9598	-2.2245	-1.7826	-0.2260	-3.3069	86.4407
3501+	-1.1844**	0.1191	-0.7830	-0.5610	-0.1486	89.2595***
Missing	-1.6081	-2.5905	-4.0957	-3.3481	.	88.9866
		MSE =	26.41891			
Quetelet's Index (kg X 100/cm ²)						
2501-3500	0.0017	0.0023	-0.0005	0.0022	-0.0004	0.1651
< 2501	-0.0015	0.0057	0.0012	0.0105	-0.0058	0.1633
3501+	0.0026	0.0059	-0.0025	-0.0013	-0.0002	0.1705**
Missing	0.0059	-0.0036	-0.0043	-0.0082	.	0.1605
		MSE =	0.0005389285			
Head Circumference (cm)						
2501-3500	0.1852	-0.0161	-0.2521	-0.4483	-0.0781	47.7877
< 2501	-0.1978	0.1523	-0.0162	-0.9586	-0.4136	47.5169
3501+	-0.0808	0.0321	0.5367	0.0930	-0.2372	48.5089***
Missing	-1.3023	-2.1058*	0.0281	-2.4355	.	47.7614
		MSE =	4.208759			
Arm Circumference (cm)						
2501-3500	-0.1349	0.0067	0.0141	0.0909	-0.5216	15.8912
< 2501	-0.3621	-0.9003*	0.5446	-0.2880	-0.7155	15.8536
3501+	-0.1636	-0.2573	0.0523	-0.2573	-1.0017*	16.3254**
Missing	0.2547	1.3387	-0.4038	-1.8346	-0.5216	15.8320
		MSE =	2.496718			
Triceps Skinfold (mm)						
2501-3500	-0.1722	0.1318	-0.3385	0.0014	0.1403	6.3771
< 2501	-0.2143	-0.4607	0.4969	-0.2693	1.6048	6.3901
3501+	-0.2592	-0.4794	-0.2316	0.3093	-1.1406	6.7851
Missing	1.3594	1.5726	1.4516	0.5770	0.1403	4.9114*
		MSE =	5.950963			
Subscapular Skinfold (mm)						
2501-3500	-0.0069	0.3988*	0.0458	0.5602*	0.2944	4.2905
< 2501	-0.3220	-0.5918	0.0725	-0.4502	-0.7289	4.6260
3501+	-0.3861*	-0.2439	-0.2944	-0.0712	-0.6866	4.8336***
Missing	0.3214	0.2499	-1.0334	-1.2399	0.2944	3.8442
		MSE =	3.121723			

(continued)

Table VI-C-4.5 (continued)

Child's Birthweight	Age at WIC Inception (m)					Unknown	Control
	Prenatal	0-3	4-11	12+			
<u>Adjusted for All Covariates</u>							
Weight (kg)							
2501-3500	-0.0945	-0.1585	-0.3564	-0.1211	-0.1435	12.7925	
< 2501	-0.3169	-0.1854	-0.0343	0.7957	-1.1593	12.2830	
3501+	-0.1708	0.2248	-0.3187	-0.0908	0.4360	13.5565**	
Missing	-0.1754	-1.1558	-0.9063	-1.2265	.	12.8814	
		MSE = 3.424151					
Height (cm)							
2501-3500	-0.6552*	-1.1368*	-0.7967	-1.0830	-0.5067	87.8506	
< 2501	-1.0154	-1.9192	-1.0965	-0.6215	-3.2717	86.4955	
3501+	-1.3660**	-0.1746	-0.8661	-0.4248	0.5169	89.2528**	
Missing	-2.8644	-3.7245	-4.7687	-5.4569	.	90.6073*	
		MSE = 24.79818					
Quetelet's Index (kg X 100/cm ²)							
2501-3500	0.0019	0.0033	-0.0008	0.0022	0.0003	0.1649	
< 2501	-0.0011	0.0064	0.0030	0.0096	-0.0040	0.1632	
3501+	0.0031	0.0061	-0.0017	-0.0007	0.0005	0.1702**	
Missing	0.0064	-0.0032	-0.0024	0.0033	.	0.1579	
		MSE = 0.0005343617					
Head Circumference (cm)							
2501-3500	0.1131	-0.1235	-0.1339	-0.4273	-0.1778	47.8244	
< 2501	-0.2734	0.1902	-0.0014	-1.0893	-0.5585	47.6106	
3501+	-0.0767	0.0882	0.5143	0.1521	-0.1240	48.4777*	
Missing	-1.5401	-2.4396*	-0.5507	-2.2881	.	48.1614	
		MSE = 4.065373					
Arm Circumference (cm)							
2501-3500	-0.1205	-0.0024	-0.0503	0.1046	-0.5196	15.8965	
< 2501	-0.3121	-0.8600*	0.6251	-0.4167	-0.8457	15.8737	
3501+	-0.1261	-0.2646	0.0130	-0.2337	-0.7797	16.2659*	
Missing	0.0282	1.3186	0.1292	-1.9600	-0.5196	16.0670	
		MSE = 2.475217					
Triceps Skinfold (mm)							
2501-3500	-0.1334	0.1108	-0.3908	-0.0464	0.1880	6.3920	
< 2501	-0.1836	-0.4161	0.4773	-0.5591	1.2369	6.4206	
3501+	-0.2862	-0.5246	-0.3260	0.0810	-1.0826	6.7452	
Missing	0.8131	1.4788	1.5628	0.5730	0.1880	5.3180	
		MSE = 5.786488					
Subscapular Skinfold (mm)							
2501-3500	-0.0124	0.4356*	-0.0442	0.4816	0.3433	4.3027	
< 2501	-0.2976	-0.5370	0.0975	-0.7007	-0.7793	4.6549	
3501+	-0.3501*	-0.2270	-0.3260	-0.1131	-0.5766	4.7898*	
Missing	0.0900	0.3563	-0.3182	-0.6265	0.3433	3.9019	
		MSE = 3.044254					

(continued)

Table VI-C-4.5 (continued)

Child's Birthweight	Age at WIC Inception (m)				Unknown	Controls
	Prenatal	0-3	4-11	12+		

Weight, Height, Quetelet's Index, Head Circumference

n	Age of WIC Inception (m)				Unknown	Controls	Total
	Prenatal	0-3	4-11	12+			
2501-3500	579	137	56	57	28	394	1,251
<2501	87	29	6	9	6	58	195
3501+	317	54	25	38	14	217	665
Missing	10	5	1	1	0	14	31
Total	993	225	88	105	48	683	2,142

Arm Circumference, Triceps Skinfold, Subscapular Skinfold

n	Age of WIC Inception (m)				Unknown	Controls	Total
	Prenatal	0-3	4-11	12+			
2501-3500	577	137	56	55	27	386	1,238
<2501	87	29	6	8	6	54	190
3501+	306	54	24	35	13	214	646
Missing	12	5	1	1	0	16	35
Total	982	225	87	99	46	670	2,109

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aAge adjustment includes second order term (age²) to account for nonlinearity of relationship. See Vol. II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-C-4.6

Anthropometric Indices and Maternal Height

Maternal Height	Prenatal	Age at WIC Inception				Unknown	Controls
		0-3	4-11	12+			
<u>Adjusted for Age and Sex of Child</u>							
Weight (kg)							
64-66	0.0902	0.0551	-0.2683	0.4521	0.1105	12.9480	
< 60	-0.2514	-1.4400*	-1.0849	-1.0473	-1.0023	12.6628	
60-63	-0.1284	-0.0194	-0.2826	-0.4162	0.1199	12.7193	
67+	-0.4117	-0.8368	0.0171	-0.4243	-1.3994*	13.8593***	
		MSE =	3.676381				
Height (cm)							
64-66	-0.2128	-0.3154	-0.5775	-1.1921	-0.0912	88.2600	
< 60	-1.4574	-4.7717**	-3.5077	-0.6002	-1.1120	86.4314	
60-63	-0.7308	-1.4146*	-0.1817	-0.6381	-0.7160	87.2952*	
67+	-1.8097*	-1.1475	-1.6926	0.9337	-1.9825	90.5945***	
		MSE =	25.94196				
Quetelet's Index (kg x 100/cm ²)							
64-66	0.0019	0.0021	-0.0008	0.0083*	0.0007	0.1657	
< 60	0.0025	0.0019	-0.0008	-0.0095	-0.0089	0.1687	
60-63	0.0016	0.0085**	-0.0027	-0.0030	0.0035	0.1661	
67+	0.0024	-0.0064	0.0059	-0.0094	-0.0117	0.1692	
		MSE =	0.0005445175				
Head Circumference (cm)							
64-66	0.0056	0.0033	0.1188	-0.1132	-0.1388	48.1566	
< 60	-0.2799	-1.5945*	-1.2398	-2.9695**	-0.2351	47.8149	
60-63	0.2118	-0.0075	-0.0208	0.0383	0.2362	47.6024**	
67+	-0.0424	-0.4702	0.9902	-0.4968	-1.3524	48.6096	
		MSE =	4.23221				
Arm Circumference (cm)							
64-66	0.0712	0.0464	0.2239	0.2469	0.1400	15.8454	
< 60	-0.0426	-1.3559**	0.0431	0.0247	-1.4136	15.7132	
60-63	-0.4033**	-0.1309	-0.2222	-0.3958	-1.0166*	16.1521*	
67+	-0.3843	-0.7284	0.4118	-0.2871	-1.9337**	16.4775**	
		MSE =	2.50479				
Triceps Skinfold (mm)							
64-66	-0.1421	0.0484	0.2121	0.0797	0.6360	6.4394	
< 60	-0.4697	-1.2503	-1.9414*	1.6943	-1.3176	6.4563	
60-63	-0.1085	0.1369	-0.3243	0.0678	-0.6263	6.3028	
67+	-0.1802	-0.8265	-0.0209	-0.0068	0.3091	7.0158	
		MSE =	5.934102				
Subscapular Skinfold (mm)							
64-66	-0.0708	0.0728	0.4446	0.4301	0.4289	4.3615	
< 60	-0.3423	-0.4932	-1.2214	2.1240**	-0.6833	4.5894	
60-63	-0.0447	0.4988*	-0.4219	-0.1537	-0.5029	4.4484	
67+	-0.4898*	-0.5569	-0.0101	0.0154	-0.4175	4.8626*	
		MSE =	3.115322				

(continued)

Table VI-C-4.6 (continued)

Maternal Height	Prenatal	Age at WIC Inception			Unknown	Controls
		0-3	4-11	12+		
<u>Adjusted for All Covariates</u>						
Weight (kg)						
64-66	0.0665	0.1198	-0.2199	0.4917	0.1691	12.9619
< 60	-0.3181	-1.3939*	-1.0378	-1.3345	-0.8772	12.6610
60-63	-0.1049	-0.0641	-0.2892	-0.3828	0.3224	12.6898
67+	-0.3299	-0.7533	0.0817	-0.2464	-1.3852*	13.8120**
		MSE =	3.595056			
Height (cm)						
64-66	-0.3309	-0.3068	-0.4432	-0.9932	-0.0382	88.2284
< 60	-1.5388	-4.7820**	-3.1788	-1.1269	-0.8260	86.6588*
60-63	-0.9621*	-1.8218**	-0.4317	-0.6417	-0.5927	87.5611
67+	-1.7548*	-0.8887	-1.5726	1.3575	-2.3762	90.3648**
		MSE =	25.40151			
Quetelet's Index (kg x 100/cm ²)						
64-66	0.0021	0.0031	-0.0007	0.0082*	0.0012	0.1660
< 60	0.0015	0.0012	-0.0015	-0.0113	-0.0080	0.1680
60-63	0.0029	0.0096**	-0.0022	-0.0024	0.0052	0.1646
67+	0.0034	-0.0061	0.0067	-0.0075	-0.0097	0.1693
		MSE =	0.000539621			
Head Circumference (cm)						
64-66	0.0021	0.0178	0.2290	-0.1104	-0.1442	48.1110
< 60	-0.2659	-1.4311*	-1.1068	-2.9527**	-0.2302	47.9271
60-63	0.1866	-0.0246	-0.0285	0.0728	0.2116	47.6653*
67+	0.0368	-0.3829	1.0161	-0.4565	-1.2639	48.4876
		MSE =	4.170953			
Arm Circumference (cm)						
64-66	0.1417	0.1123	0.1847	0.2830	0.2096	15.8015
< 60	0.0049	-1.2740*	0.0180	-0.1499	-1.2782	15.7100
60-63	-0.3893**	-0.1569	-0.2523	-0.4224	-0.9950*	16.1514*
67+	-0.3260	-0.6697	0.3564	-0.2230	-1.8478**	16.4315**
		MSE =	2.482512			
Triceps Skinfold (mm)						
64-66	-0.0735	0.0953	0.1397	0.0166	0.5889	6.4016
< 60	-0.4621	-1.6675*	-1.8895*	1.3100	-1.2590	6.4982
60-63	-0.1058	0.1291	-0.4277	-0.1194	-0.5940	6.3327
67+	-0.2108	-0.6781	-0.0386	-0.2503	0.3117	6.9993*
		MSE =	5.783688			
Subscapular Skinfold (mm)						
64-66	-0.0373	0.1473	0.3828	0.3959	0.5142	4.3590
< 60	-0.4134	-0.6065	-1.2628	1.7191*	-0.7908	4.6355
60-63	-0.0056	0.5523*	-0.4651	-0.2144	-0.3967	4.3915
67+	-0.5410*	-0.5092	-0.0507	-0.0888	-0.4114	4.9199**
		MSE =	3.032842			

(continued)

Table VI-C-4.6 (continued)

Maternal Height	Prenatal	Age at WIC Inception				Unknown	Controls
		0-3	4-11	12+			
<u>Weight, Height, Quetelet's Index Head Circumference</u>							
<u>n</u>	<u>Prenatal</u>	<u>0-3</u>	<u>4-11</u>	<u>12+</u>	<u>Unknown</u>	<u>Controls</u>	<u>Total</u>
64-66	459	128	38	56	20	294	995
< 60	70	11	8	7	4	63	164
60-63	340	67	34	35	16	238	730
67+	<u>123</u>	<u>19</u>	<u>8</u>	<u>7</u>	<u>8</u>	<u>88</u>	<u>253</u>
Total	993	225	88	105	48	683	2,142
<u>Arm Circumference, Triceps Skinfold, Subscapular Skinfold</u>							
<u>n</u>	<u>Prenatal</u>	<u>0-3</u>	<u>4-11</u>	<u>12 +</u>	<u>Unknown</u>	<u>Controls</u>	<u>Total</u>
64-66	462	125	40	53	19	289	990
< 60	71	11	8	6	4	60	160
60-63	<u>118</u>	<u>18</u>	<u>8</u>	<u>6</u>	<u>7</u>	<u>90</u>	<u>245</u>
Total	982	225	87	99	46	670	2,109

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship. See Table II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-C-4.7

Anthropometric Indices and Ethnicity
Table VI-C-4.12

	Age at WIC Inception (m)					
Ethnic Group	Prenatal	0-3	4-11	12+	Unknown	Controls
<u>Adjusted for Age and Sex of Child^a</u>						
Weight (kg)						
White Nonhispanic	-0.2348	-0.1758	-0.5350	-0.1151	-0.4519	12.9681
White Hispanic	0.2267	0.6558	0.5294	0.4182	-0.4211	12.8694
Black	-0.1591	-0.4560	-0.8150	-0.2095	-0.1210	13.1412
Other	0.6354	-0.2459	0.3043	-0.2248	1.9066	12.6230
	MSE = 3.776948					
Height (cm)						
White Nonhispanic	-1.1028**	-1.2767*	-1.5776*	-0.1804	-0.9576	88.2108
White Hispanic	-0.3404	-0.0739	1.4052	-0.6818	0.5942	86.8635**
Black	-1.0844*	-1.5621*	-1.7749	-3.3014**	-0.8941	89.1542
Other	-0.3222	-0.2597	1.3309	-2.4408	-1.6244	87.8453
	MSE = 26.93109					
Quetelet's Index (kg X 100/cm ²)						
White Nonhispanic	0.0007	0.0029	-0.0016	-0.0005	-0.0021	0.1662
White Hispanic	0.0050	0.0138**	0.0010	0.0048	-0.0094	0.1700
Black	0.0032	0.0015	-0.0002	0.0062	-0.0010	0.1645
Other	0.0100	-0.0008	-0.0018	0.0075	0.0320*	0.1625
	MSE = 0.0005398642					
Head Circumference (cm)						
White Nonhispanic	-0.2176	-0.2616	0.0855	-0.1573	-0.3159	48.1338
White Hispanic	0.0029	0.4106	0.1257	0.5099	1.1686	47.6030**
Black	0.1244	-0.3083	-0.9251	-1.4604**	-0.8673	48.2313
Other	1.0502	0.3960	1.3787	-1.0206	0.3474	47.1921**
	MSE = 4.294529					
Arm Circumference (cm)						
White Nonhispanic	-0.1037	-0.0907	0.0872	-0.0608	-0.4743	16.0770
White Hispanic	-0.2990	0.0158	-0.0399	0.1502	-1.2967	16.0290
Black	0.0574	-0.1652	0.0379	-0.1595	-0.8676	15.7318*
Other	-0.6056	-0.7975	0.1218	-0.8537	-0.4673	16.4374
	MSE = 2.53197					
Triceps Skinfold (mm)						
White Nonhispanic	0.0253	-0.0103	-0.1774	-0.2111	-0.1430	6.6969
White Hispanic	-0.3111	-0.3267	-0.7079	0.8513	-0.4435	6.2568
Black	0.0079	0.1912	0.4836	-0.0439	0.4581	5.9662**
Other	-0.7411	-1.1545	-3.6037*	1.8256	0.4322	6.5339
	MSE = 5.883466					
Subscapular Skinfold (mm)						
White Nonhispanic	-0.0139	0.3057	-0.2850	-0.0700	-0.3000	4.5227
White Hispanic	-0.1026	-0.3495	0.3365	1.1480**	-0.7669	4.6025
Black	-0.1412	0.0049	0.5019	0.1762	0.5097	4.2410
Other	-0.3963	0.3992	-1.9079	1.3891	0.8586	4.1819
	MSE = 3.102705					
<u>Adjusted for All Covariates</u>						
Weight (kg)						
White Nonhispanic	-0.2210	-0.1514	-0.4722	-0.0527	-0.3062	12.8848
White Hispanic	0.1804	0.4632	0.4206	0.1768	-0.0645	13.2229
Black	-0.0864	-0.3319	-0.6104	-0.0938	-0.2519	12.9952
Other	0.3127	-0.4690	-0.0504	-0.1651	1.9912	12.9170
	MSE = 3.591665					

(continued)

Table VI-C-4.7 (continued)

	Age at WIC Inception (m)					
Ethnic Group	Prenatal	0-3	4-11	12+	Unknown	Controls
Height (cm)						
White Nonhispanic	-1.0186**	-1.2208*	-1.3434	0.1127	-0.6816	87.9623
White Hispanic	-0.3472	-0.7347	1.1966	-1.2874	1.4043	87.7830*
Black	-1.0678*	-1.4017	-1.5676	-3.0242*	-1.4588	88.8849
Other	-1.1261	-0.6540	1.0964	-2.8125	-1.4580	88.7373
	MSE = 25.40951					
Quetelet's Index (kg X 100/cm ²)						
White Nonhispanic	0.0007	0.0033	-0.0019	-0.0006	-0.0013	0.1658
White Hispanic	0.0042	0.0134**	0.0007	0.0040	-0.0081	0.1715
Black	0.0041	0.0026	0.0015	0.0069	-0.0005	0.1636
Other	0.0085	-0.0023	-0.0049	0.0093	0.0317*	0.1635
	MSE = 0.0005405325					
Head Circumference (cm)						
White Nonhispanic	-0.1457	-0.1899	0.1810	-0.1159	-0.2466	48.0217
White Hispanic	0.0970	0.3301	0.1662	0.3530	1.2011	47.8151
Black	0.1862	-0.2207	-0.6734	-1.3196**	-0.8381	48.1373
Other	0.8473	0.3225	1.5284	-1.0479	-0.0445	47.4177
	MSE = 4.16419					
Arm Circumference (cm)						
White Nonhispanic	-0.1071	-0.0812	0.0876	-0.0511	-0.4183	16.0213
White Hispanic	-0.3018	-0.0025	-0.1620	0.0978	-1.1583	16.1930
Black	0.0678	-0.1271	0.0261	-0.0692	-0.8346	15.7179
Other	-0.7524	-0.9184	-0.2037	-0.7150	-0.3802	16.5580
	MSE = 2.5086					
Triceps Skinfold (mm)						
White Nonhispanic	-0.1048	-0.0721	-0.2440	-0.2984	-0.1001	6.7141
White Hispanic	-0.3301	-0.4111	-0.8108	0.6404	-0.1452	6.4956
Black	0.0547	0.2709	0.5591	-0.0605	0.2229	5.8911**
Other	-0.8927	-1.2013	-3.6316*	1.8951	0.4873	6.6382
	MSE = 5.780676					
Subscapular Skinfold (mm)						
White Nonhispanic	-0.0969	0.2850	-0.3312	-0.1377	-0.2979	4.5463
White Hispanic	-0.1421	-0.3032	0.2584	1.0595*	-0.5913	4.7252
Black	-0.1391	0.0417	0.4467	0.0937	0.5251	4.2126
Other	-0.4530	0.3178	-2.1587	1.6177	0.9163	4.1949
	MSE = 3.041152					

(continued)

Table VI-C-4.7 (continued)

Ethnic Group	Age at WIC Inception (m)				Unknown	Controls
	Prenatal	0-3	4-11	12+		

Weight, Height, Quetelet's Index, Head Circumference

n	Age of WIC Inception (m)				Unknown	Controls	Total
	Prenatal	0-3	4-11	12+			
White Nonhispanic	457	118	54	63	26	383	1,101
White Hispanic	140	26	15	19	6	149	355
Black	378	74	17	19	13	120	621
Other	18	7	2	4	3	31	65
Total	993	225	88	105	48	683	2,142

Arm Circumference, Triceps Skinfold, Subscapular Skinfold

n	Age of WIC Inception (m)				Unknown	Controls	Total
	Prenatal	0-3	4-11	12+			
White Nonhispanic	450	120	54	59	25	378	1,085
White Hispanic	139	25	16	18	6	147	351
Black	376	72	16	18	12	116	610
Other	17	8	2	4	3	29	63
Total	982	225	88	99	46	670	2,109

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship. See Vol. II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-C-4.8

Frequency of Aberrant Growth and Ethnicity

Ethnic Group	Prenatal	Age at WIC Inception			Unknown	Controls
		0-3	4-11	12+		
<u>Adjusted for Age and Sex of Child</u>						
Weight <10 Percentile						
White Nonhispanic	0.0436	0.0393	0.0568	0.0226	0.0009	0.1132
White Hispanic	-0.0561	-0.0335	0.0269	0.0528	0.0085	0.1529
Black	0.0054	0.0384	-0.0040	0.1878*	0.0336	0.1207
Other	0.0229	0.0549	-0.0823	-0.1002	-0.0895	0.0892
		MSE =	0.1175414			
Weight >90 Percentile						
White Nonhispanic	-0.0264	-0.0098	-0.1142*	-0.0291	-0.0510	0.1215
White Hispanic	-0.0315	0.0554	0.2418*	0.0588	-0.1537	0.1600
Black	-0.0355	-0.0845	-0.1194	0.0101	-0.0908	0.1757
Other	-0.0242	0.0182	-0.1219	-0.1039	0.2140	0.1312
		MSE =	0.1060687			
Height <10 Percentile						
White Nonhispanic	0.0629**	0.0764*	0.0531	0.0019	0.0920	0.1026
White Hispanic	0.0168	-0.0131	0.0693	0.0832	-0.1902	0.1713*
Black	0.0221	0.0390	0.2003*	0.1529	0.0538	0.0931
Other	0.0253	-0.0718	-0.2088	0.0383	0.1244	0.2017
		MSE =	0.1229958			
Height >90 Percentile						
White Nonhispanic	-0.0158	0.0087	-0.0231	-0.0101	0.0586	0.0928
White Hispanic	-0.0100	-0.0341	-0.0519	0.0018	-0.0994	0.1075
Black	-0.0029	0.0058	-0.0279	-0.0820	0.0133	0.1452
Other	0.0117	0.0533	-0.0902	-0.0905	-0.0917	0.0969
		MSE =	0.09377848			
Head Circumference <10 Percentile						
White Nonhispanic	0.0397	0.0378	-0.0753	-0.0285	0.0701	0.2412
White Hispanic	0.0422	0.0270	-0.0096	-0.1339	-0.4010*	0.3783*
Black	-0.0501	0.0255	0.2718*	0.1220	0.1190	0.2575
Other	-0.1799	-0.1317	-0.4067	0.5463*	-0.4217	0.4091*
		MSE =	0.1934689			
Head Circumference >90 Percentile						
White Nonhispanic	-0.0002	-0.0149	0.0144	-0.0623	0.0135	0.0933
White Hispanic	-0.0124	-0.0030	0.0430	0.0304	0.0840	0.0716
Black	0.0744*	0.0487	-0.0373	0.0777	-0.0076	0.0912
Other	0.0159	-0.0907	-0.0750	-0.0873	-0.0848	0.0944
		MSE =	0.09047566			
Arm Circumference <10 Percentile						
White Nonhispanic	0.0267	-0.0008	-0.0963	-0.0813	0.0785	0.1526
White Hispanic	0.1522*	-0.0166	0.1539	0.0773	0.0100	0.1560
Black	0.0213	0.0845	0.0782	0.0896	0.2542*	0.1684
Other	0.1687	0.0034	-0.1127	0.1750	-0.1042	0.1181
		MSE =	0.1438442			
Arm Circumference >90 Percentile						
White Nonhispanic	-0.0171	0.0105	-0.0148	-0.0450	-0.0353	0.1137
White Hispanic	-0.0023	-0.0206	0.1673*	-0.0056	-0.1110	0.1088
Black	0.0254	-0.0163	0.0459	-0.0370	0.0105	0.0783
Other	0.0196	0.0321	0.4170	-0.1237	-0.0991	0.1005
		MSE =	0.09155843			

(continued)

Table VI-C-4.8 (continued)

		Age at WIC Inception					
Ethnic Group	Prenatal	0-3	4-11	12+	Unknown	Controls	
Triceps Skinfold <10 Percentile							
White Nonhispanic	-0.0169	-0.0241	0.0402	0.1175	0.0139	0.5986	
White Hispanic	0.1036	0.0157	0.1104	-0.0768	0.0371	0.6331	
Black	0.0409	0.0593	0.0214	-0.0758	-0.1035	0.6708	
Other	0.1009	0.1316	0.3554	-0.3677	0.0398	0.6091	
	MSE =	0.2268809					
Triceps Skinfold >90 Percentile							
White Nonhispanic	0.0021	0.0098	-0.0128	-0.0055	0.0227	0.0160	
White Hispanic	0.0025	-0.0175	-0.0160	-0.0240	-0.0285	0.0194	
Black	0.0062	0.0080	-0.0063	0.0446	-0.0043	0.0043	
Other	0.0052	0.0031	0.0099	0.2463*	0.0037	-0.0033	
	MSE =	0.01489752					
Subscapular Skinfold <10 Percentile							
White Nonhispanic	-0.0163	-0.0431	-0.0195	-0.0432	0.0359	0.4882	
White Hispanic	0.0326	0.1476	0.1034	-0.2458*	0.0674	0.3899*	
Black	0.1077*	0.0113	-0.0643	0.0738	-0.0303	0.4334	
Other	0.1703	-0.2490	0.5125	-0.2839	-0.1705	0.4901	
	MSE =	0.2454748					
Subscapular Skinfold >90 Percentile							
White Nonhispanic	-0.0050	0.0376	-0.0316	-0.0466	-0.0563	0.0555	
White Hispanic	0.0253	0.0172	0.0466	0.1902*	-0.0409	0.0255	
Black	-0.0151	-0.0163	-0.0311	0.0721	0.0525	0.0281	
Other	-0.0589	-0.0652	-0.0579	-0.0712	-0.0639	0.0623	
	MSE =	0.03905295					
Adjusted For All Covariates							
Weight <10 Percentile							
White Nonhispanic	0.0308	0.0192	0.0474	0.0102	-0.0139	0.1327	
White Hispanic	-0.0565	-0.0147	0.0331	0.0753	-0.0382	0.1080	
Black	-0.0071	0.0118	-0.0453	0.1640*	0.0359	0.1425	
Other	0.0780	0.0787	-0.0495	-0.1164	-0.0699	0.0411	
	MSE =	0.1137372					
Weight >90 Percentile							
White Nonhispanic	-0.0311	-0.0165	-0.1181*	-0.0239	-0.0452	0.1177	
White Hispanic	-0.0360	0.0323	0.2165*	0.0311	-0.1402	0.1962*	
Black	-0.0305	-0.0734	-0.1014	0.0187	-0.1115	0.1636	
Other	-0.0451	-0.0004	-0.1257	-0.0793	0.2234	0.1485	
	MSE =	0.1039964					
Height <10 Percentile							
White Nonhispanic	0.0561*	0.0624	0.0436	-0.0125	0.0721	0.1166	
White Hispanic	0.0115	0.0013	0.0700	0.1000	-0.2538	0.1580	
Black	0.0092	0.0241	0.1790*	0.1474	0.0628	0.0991	
Other	0.0482	-0.0700	-0.1721	0.0613	0.0989	0.1699	
	MSE =	0.1208864					
Height >90 Percentile							
White Nonhispanic	-0.0168	0.0071	-0.0163	0.0030	0.0745	0.0834	
White Hispanic	-0.0132	-0.0702	-0.0733	-0.0257	-0.0961	0.1501	
Black	-0.0020	0.0138	-0.0093	-0.0732	-0.0179	0.1357	
Other	-0.0299	0.0188	-0.0773	-0.1131	-0.0808	0.1331	
	MSE =	0.0904467					
Head Circumference <10 Percentile							
White Nonhispanic	0.0178	0.0208	-0.0864	-0.0387	0.0597	0.2660	
White Hispanic	0.0170	0.0336	-0.0121	-0.1229	-0.4013*	0.3508	
Black	-0.0609	0.0146	0.2479*	0.1016	0.1218	0.2662	
Other	-0.1439	-0.1119	-0.4204	0.5632*	-0.4186	0.3826	
	MSE =	0.1893025					

(continued)

Table VI-C-4.8 (continued)

Ethnic Group	Prenatal	Age of WIC Inception				Unknown	Controls
		0-3	4-11	12+			
Adjusted For All Covariates							
Head Circumference >90 Percentile							
White Nonhispanic	-0.0003	-0.0097	0.0155	-0.0571	0.0144	0.0874	
White Hispanic	-0.0041	-0.0110	0.0365	0.0225	0.1010	0.0816	
Black	0.0816*	0.0585	-0.0125	0.0779	-0.0143	0.0864	
Other	0.0076	-0.0896	-0.0659	-0.0639	-0.1015	0.1080	
		MSE =	0.0903911				
Arm Circumference <10 Percentile							
White Nonhispanic	0.0173	-0.0145	-0.1052	-0.0896	0.0571	0.1652	
White Hispanic	0.1487*	-0.0127	0.1607	0.0919	-0.0487	0.1220	
Black	0.0233	0.0762	0.0601	0.0485	0.2559*	0.1825	
Other	0.2021	0.0368	-0.0302	0.1598	-0.0717	0.0734	
		MSE =	0.1418665				
Arm Circumference >90 Percentile							
White Nonhispanic	-0.0186	0.0118	-0.0172	-0.0440	-0.0274	0.1039	
White Hispanic	0.0007	-0.0232	0.1495	0.0015	-0.0915	0.1306	
Black	0.0313	-0.0059	0.0441	-0.0392	0.0080	0.0784	
Other	0.0076	0.0095	0.3833	-0.0966	-0.0625	0.1054	
		MSE =	0.09115897				
Triceps Skinfold <10 Percentile							
White Nonhispanic	0.0050	-0.0091	0.0467	0.1384*	0.0018	0.5946	
White Hispanic	0.1149*	0.0223	0.1245	-0.0313	-0.0019	0.5899	
Black	0.0265	0.0417	0.0014	-0.0824	-0.0849	0.6898	
Other	0.1222	0.1477	0.3768	-0.3929	0.0622	0.5897	
		MSE =	0.2248352				
Triceps Skinfold >90 Percentile							
White Nonhispanic	-0.0034	0.0047	-0.0195	-0.0077	0.0201	0.0172	
White Hispanic	0.0020	-0.0224	-0.0252	-0.0242	-0.0318	0.0221	
Black	0.0057	0.0081	-0.0132	0.0385	-0.0174	0.0084	
Other	0.0036	0.0058	0.0310	0.2425*	0.0283	-0.0080	
		MSE =	0.01482641				
Subscapular Skinfold <10 Percentile							
White Nonhispanic	-0.0152	-0.0589	-0.0255	-0.0362	0.0270	0.4890	
White Hispanic	0.0389	0.1287	0.1251	-0.2249	0.0433	0.3626	
Black	0.0963	-0.0178	-0.0824	0.0713	-0.0235	0.4593	
Other	0.1814	-0.2505	0.5551	-0.3348	-0.1448	0.4898	
		MSE =	0.2435401				
Subscapular Skinfold >90 Percentile							
White Nonhispanic	-0.0150	0.0335	-0.0418	-0.0538*	-0.0573	0.0581	
White Hispanic	0.0211	0.0199	0.0334	0.1825*	-0.0369	0.0284	
Black	-0.0142	-0.0120	-0.0369	0.0571	0.0538	0.0329	
Other	-0.0593	-0.0793	-0.0591	-0.0436	-0.0400	0.0584	
		MSE =	0.0383419				

(continued)

Table VI-C-4.8 (continued)

Ethnic Group	Prenatal	Age at WIC Inception				Unknown	Controls	
		0-3	4-11	12+				
<u>Weight, Height, Head Circumference</u>								
<u>n</u>	<u>Prenatal</u>	<u>0-3</u>	<u>4-11</u>	<u>12+</u>	<u>Unknown</u>	<u>Controls</u>	<u>Totals</u>	
White Nonhispanic	462	118	54	63	26	389	1,112	
White Hispanic	144	26	17	19	6	150	362	
Black	388	74	17	19	13	120	631	
Other	<u>18</u>	<u>7</u>	<u>2</u>	<u>4</u>	<u>3</u>	<u>33</u>	<u>67</u>	
Total	1,012	225	90	105	48	691	2,172	
<u>Arm Circumference, Triceps Skinfold, Subscapular Skinfold</u>								
<u>n</u>	<u>Prenatal</u>	<u>0-3</u>	<u>4-11</u>	<u>12+</u>	<u>Unknown</u>	<u>Controls</u>	<u>Total</u>	
White Nonhispanic	450	120	54	59	25	378	1,085	
White Hispanic	139	25	16	6	147	147	351	
Black	376	72	16	18	12	116	610	
Other	<u>17</u>	<u>8</u>	<u>2</u>	<u>4</u>	<u>3</u>	<u>29</u>	<u>63</u>	
Total	982	225	88	99	46	670	2,109	

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship. See Table II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-C-4.9

Anthropometric Indices and Maternal Age

	Age at WIC Inception (m)					
Maternal Age (yrs)	Prenatal	0-3	4-11	12+	Unknown	Controls
<u>Adjusted for Age and Sex of Child^a</u>						
Weight (kg)						
20-29	-0.1295	-0.1599	-0.3963	-0.0213	0.1431	12.9304
< 18	-0.4773	-0.5488	.	-2.5363	-0.4650	13.3737
18-19	-0.1513	-0.0483	-0.1310	0.1937	-1.7582*	13.0526
30+	0.4587	0.0362	-0.3650	-0.0663	-1.7908	13.0227
	MSE = 3.776553					
Height (cm)						
20-29	-0.7570*	-0.6774	-1.2884	-1.0432	-0.2176	88.0235
< 18	-2.3155	-2.3071	.	-3.3898	-2.0309	89.2881
18-19	-0.4060	-1.8265	1.7465	-0.9942	-2.9127	88.1080
30+	0.0709	-1.1785	-0.9547	0.0655	0.0154	88.0651
	MSE = 27.1961					
Quetelet's Index (kg X 100/cm ²)						
20-29	0.0019	0.0016	-0.0000	0.0023	0.0022	0.1663
< 18	0.0014	0.0050	.	-0.0182	0.0021	0.1684
18-19	-0.0011	0.0073	-0.0088	0.0043	-0.0154	0.1677
30+	0.0050	0.0061	-0.0001	-0.0000	-0.0255	0.1668
	MSE = 0.0005465747					
Head Circumference (cm)						
20-29	-0.0015	-0.1741	0.0696	-0.1424	-0.1220	48.0485
< 18	-0.3057	-0.0801	.	-18.1094**	-0.7379	48.1239
18-19	0.2616	-0.2541	-0.9512	-1.0553	-0.7918	47.8455
30+	0.3607	0.7027	0.2729	0.6107	-0.0542	47.7181
	MSE = 4.204896					
Arm Circumference (cm)						
20-29	-0.1111	-0.1936	0.0603	0.0636	-0.6225*	15.9452
< 18	-0.8093	-0.9244	.	-0.5437	0.5076	16.9221*
18-19	-0.3647	-0.0355	0.5273	-0.4901	-1.1068	16.1105
30+	-0.1930	-0.1207	-0.3409	-0.4405	-1.0143	16.3078
	MSE = 2.530621					
Triceps Skinfold (mm)						
20-29	-0.1149	-0.0364	-0.2141	0.2184	0.1083	6.4192
< 18	-0.2515	0.3212	.	6.7523**	2.7329	6.5545
18-19	-0.4327	-0.6570	-0.0156	-0.8108	-1.0469	6.7127
30+	-0.3068	-0.0497	-0.5685	-0.2568	-0.4242	6.6429
	MSE = 5.979878					
Subscapular Skinfold (mm)						
20-29	-0.0744	0.1436	-0.0943	0.3006	-0.0286	4.4353
< 18	0.1775	0.3431	.	0.7147	1.7603	4.5083
18-19	-0.5168	-0.3461	-0.2084	-0.1327	-0.1960	4.5636
30+	-0.2841	0.1150	0.1853	0.1997	-1.9220	4.7011
	MSE = 3.138029					

(continued)

Table VI-C-4.9 (continued)

	Age at WIC Inception (m)						
Maternal Age (yrs)	Prenatal	0-3	4-11	12+	Unknown	Controls	
<u>Adjusted for All Covariates</u>							
Weight (kg)							
20-29	-0.1645	-0.1967	-0.3351	-0.0204	0.2106	12.9271	
< 18	-0.4433	-0.5347	.	-2.5474	-0.2410	13.3316	
18-19	-0.1251	0.0471	-0.0250	0.2673	-1.7288*	13.0489	
30+	0.4536	0.2355	-0.3940	0.0786	-1.0803	13.0837	
	MSE = 3.578498						
Height (cm)							
20-29	-0.9734**	-0.9758*	-1.2220	-0.9253	-0.3632	88.1215	
< 18	-2.5805	-2.2127	.	-2.6694	-1.5561	89.0746	
18-19	-0.6622	-2.0232	2.1026	-0.8716	-3.0866	88.2479	
30+	-0.0689	-1.0018	-1.4240	0.0199	2.5840	88.4231	
	MSE = 25.38485						
Quetelet's Index (kg X 100/cm ²)							
20-29	0.0023	0.0023	0.0004	0.0020	0.0034	0.1660	
< 18	0.0025	0.0053	.	-0.0221	0.0028	0.1688	
18-19	0.0005	0.0095	-0.0087	0.0055	-0.0134	0.1669	
30+	0.0055	0.0085	0.0010	0.0021	-0.0267	0.1660	
	MSE = 0.0005409826						
Head Circumference (cm)							
20-29	-0.0286	-0.1905	0.1368	-0.1196	-0.1694	48.0418	
< 18	-0.4539	-0.1404	.	-17.5105**	-0.4551	48.3114	
18-19	0.2422	-0.3068	-0.8007	-1.0570	-0.8140	47.9312	
30+	0.2648	0.6834	0.4061	0.5199	0.5138	47.7523	
	MSE = 4.050991						
Arm Circumference (cm)							
20-29	-0.0557	-0.1656	0.0677	0.0567	-0.5729*	15.8886	
< 18	-0.6893	-0.8173	.	-0.5065	0.6764	16.9657*	
18-19	-0.3961	-0.0050	0.4114	-0.4681	-1.1510	16.1951	
30+	-0.1812	-0.1283	-0.4407	-0.4000	-0.3189	16.3561*	
	MSE = 2.487379						
Triceps Skinfold (mm)							
20-29	-0.0999	-0.0292	-0.2549	0.0838	0.1143	6.3984	
< 18	0.2529	0.6158	.	6.9053**	3.2944	6.3075	
18-19	-0.4174	-0.6325	-0.0360	-0.9269	-1.2613	6.6819	
30+	-0.3928	-0.3085	-0.7110	-0.4855	0.3007	6.8379	
	MSE = 5.782555						
Subscapular Skinfold (mm)							
20-29	-0.0765	0.1869	-0.1290	0.2137	0.0704	4.4178	
< 18	0.5378	0.5366	.	0.2051	2.2247	4.2936	
18-19	-0.5149	-0.3074	-0.1783	-0.1992	-0.3117	4.5253	
30+	-0.3075	0.1420	-0.0033	0.1905	-1.8423	4.8500*	
	MSE = 3.046514						

(continued)

Table VI-C-4.9 (continued)

	Age at WIC Inception (m)						
Maternal Age (yrs)	Prenatal	0-3	4-11	12+	Unknown	Controls	
<u>Weight, Height, Quetelet's index, Head Circumference</u>							
	Age of WIC Inception (m)						
<u>n</u>	<u>Prenatal</u>	<u>0-3</u>	<u>4-11</u>	<u>12+</u>	<u>Unknown</u>	<u>Controls</u>	<u>Total</u>
20-29	674	165	70	77	39	527	1,552
<18	60	12	0	1	1	14	88
18-19	163	28	10	9	6	57	273
30+	<u>96</u>	<u>20</u>	<u>8</u>	<u>18</u>	<u>2</u>	<u>85</u>	<u>229</u>
Total	993	225	88	105	48	683	2,142
<u>Arm Circumference, Triceps Skinfold, Subscapular Skinfold</u>							
	Age of WIC Inception (m)						
<u>n</u>	<u>Prenatal</u>	<u>0-3</u>	<u>4-11</u>	<u>12+</u>	<u>Unknown</u>	<u>Controls</u>	<u>Total</u>
20-29	663	164	69	73	37	519	1,525
<18	62	12	0	1	1	14	90
18-19	163	29	9	8	6	52	267
30+	<u>94</u>	<u>20</u>	<u>9</u>	<u>17</u>	<u>2</u>	<u>85</u>	<u>227</u>
Total	993	225	87	99	46	670	2,109

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aAge adjustment includes second order term (age²) to account for nonlinearity of relationship. See Vol. II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-C-4.10

Anthropometric Indices and Receipt of Welfare
Benefits (AFDC) and Food Stamps

Participant Group	Age at WIC Inception (m) ^a					Controls
	Prenatal	0-3	4-11	12+	Unknown	
<u>Adjusted for Age and Sex of Child</u>						
Weight (kg)						
Nonparticipant	0.0788	0.1978	0.2995	0.0180	0.5323	12.8755
AFDC	-0.7392	-0.9900	-1.4141	-3.9820*	-1.1398	13.5812
Food Stamps	-0.1519	-0.5117	-0.7403	0.4083	-1.5850*	13.0139
AFDC & Food Stamps	-0.2984	-0.2458	-0.8509	-0.9130	-0.5122	13.1710
	MSE = 3.811345					
Height (cm)						
Nonparticipant	-0.2059	-0.8856	-0.0977	-0.7327	1.1443	87.9244
AFDC	-3.1509*	-4.7683*	-5.4282*	-11.6868*	-9.1289**	91.1426*
Food Stamps	-0.6675	-1.7941*	-1.2624	0.4564	-1.8202	87.6173
AFDC & Food Stamps	-1.3455*	0.5332	-0.4902	-2.7209*	-1.3369	88.5937
	MSE = 26.95643					
Quetelet's Index (kg X 100/cm ²)						
Nonparticipant	0.0019	0.0067*	0.0037	0.0021	0.0032	0.1661
AFDC	0.0011	0.0059	0.0030	-0.0029	0.0179	0.1629
Food Stamps	0.0008	0.0025	-0.0036	0.0014	-0.0164	0.1688
AFDC & Food Stamps	0.0020	-0.0045	-0.0094	-0.0009	-0.0034	0.1673
	MSE = 0.000556172					
Head Circumference (cm)						
Nonparticipant	0.0832	0.4237	0.6341	0.1032	0.2542	47.9866
AFDC	-0.1578	-1.3904	-1.3195	-1.6373	-0.7523	48.2114
Food Stamps	0.0347	-0.3994	-0.0913	-0.3942	-0.6218	47.8401
AFDC & Food Stamps	0.1493	-0.1039	-0.5103	-0.9430	-0.4736	48.0183
	MSE = 4.493787					
Arm Circumference (cm)						
Nonparticipant	-0.0275	0.1459	0.3072	0.0286	-0.8573*	15.9234
AFDC	-1.2044**	-1.2594*	-1.9408*	.	-1.9038	17.0353**
Food Stamps	-0.2482	-0.3009	-0.1758	0.1803	-0.9077	16.1499
AFDC & Food Stamps	-0.3325	-0.5613*	0.0454	-0.8534*	-0.3592	16.1108
	MSE = 2.52547					
Triceps Skinfold (mm)						
Nonparticipant	-0.2014	0.2115	0.1775	0.2587	0.0242	6.2761
AFDC	0.1822	-0.5533	1.1826	.	-1.5721	6.2500
Food Stamps	-0.2592	-0.6239	-1.1894*	0.1718	0.4180	6.9530**
AFDC & Food Stamps	-0.5202	-0.2505	-0.4120	-0.9167	-0.1387	6.6832
	MSE = 5.929478					
Subscapular Skinfold (mm)						
Nonparticipant	-0.2025	0.2421	0.1032	0.3333	0.0808	4.4452
AFDC	0.1890	-0.3467	0.4468	.	-1.1069	3.8115
Food Stamps	-0.0897	0.3218	-0.1991	0.2082	-0.3534	4.6534
AFDC & Food Stamps	-0.2089	-0.3938	-0.4290	-0.0928	0.0280	4.4931
	MSE = 3.116247					

(continued)

Table VI-C-4.10 (continued)

Participant Group	Age at WIC Inception (m) ^a					Controls
	Prenatal	0-3	4-11	12+	Unknown	
<u>Adjusted for All Covariates</u>						
Weight (kg)						
Nonparticipant	0.0302	0.1906	0.1947	0.0161	0.6459	12.9255
AFDC	-0.8971	-1.0603	-1.1060	-4.4077*	-0.8181	13.6994
Food Stamps	-0.1793	-0.4845	-0.7479	0.3855	-1.5711*	13.0489
AFDC & Food Stamps	-0.2213	-0.2451	-0.6601	-0.6737	-0.4423	13.0051
	MSE = 3.619096					
Height (cm)						
Nonparticipant	-0.4681	-1.1339	-0.3797	-0.9191	1.1979	88.2325
AFDC	-3.7590**	-5.2013**	-4.6578*	-11.7684*	-8.5669**	91.3642
Food Stamps	-0.7158	-1.8831**	-1.3167	0.6056	-1.6337	87.7247
AFDC & Food Stamps	-1.5244*	0.2570	-0.0704	-2.2153	-1.4152	88.2537
	MSE = 25.37782					
Quetelet's Index (kg X 100/cm ²)						
Nonparticipant	0.0022	0.0075**	0.0034	0.0028	0.0045	0.1658
AFDC	0.0016	0.0075	0.0039	-0.0059	0.0189	0.1629
Food Stamps	0.0009	0.0036	-0.0032	0.0008	-0.0175*	0.1686
AFDC & Food Stamps	0.0038	-0.0034	-0.0088	0.0007	-0.0021	0.1660
	MSE = 0.0005516837					
Head Circumference (cm)						
Nonparticipant	0.0319	0.3908	0.6315	0.0173	0.2364	47.9190
AFDC	-0.2728	-1.3907	-1.0441	-1.7278	-0.6024	48.4075
Food Stamps	0.0321	-0.4564	-0.0799	-0.4139	-0.7076	47.9145
AFDC & Food Stamps	0.0716	-0.1862	-0.4549	-0.7443	-0.5095	48.1716
	MSE = 4.348959					
Arm Circumference (cm)						
Nonparticipant	0.0097	0.1694	0.2424	0.0079	-0.8004*	15.9128
AFDC	-1.0863*	-1.1232	-1.8149*	.	-1.9103	17.0410
Food Stamps	-0.2353	-0.2591	-0.2739	0.2086	-0.7681	16.1198
AFDC & Food Stamps	-0.2508	-0.5365*	0.1472	-0.7707	-0.3061	16.0507
	MSE = 2.490965					
Triceps Skinfold (mm)						
Nonparticipant	-0.1790	0.2302	0.1554	0.0711	0.0275	6.2989
AFDC	0.3898	-0.4848	1.2237	.	-1.3633	6.2108
Food Stamps	-0.2037	-0.5726	-1.2594*	0.1786	0.4948	6.8557
AFDC & Food Stamps	-0.2863	-0.0415	-0.2078	-0.8092	-0.0812	6.5225
	MSE = 5.770569					

(continued)

Table VI-C-4.10 (continued)

Participant Group	Age at WIC Inception (m) ^a				Unknown	Controls
	Prenatal	0-3	4-11	12+		
<u>Adjusted for All Covariates</u>						
Subscapular Skinfold (mm)						
Nonparticipant	-0.2045	0.2642	0.0574	0.2604	0.0561	4.5642
AFDC	0.2300	-0.2514	0.3001	.	-0.9665	3.7517
Food Stamps	-0.0861	0.4345	-0.2362	0.2372	-0.1880	4.5483
AFDC & Food Stamps	-0.1017	-0.2817	-0.3458	-0.0933	0.0777	4.2850
	MSE = 3.055661					

Weight, Height, Quetelet's Index, Head Circumference

Participant Group	Age at WIC Inception (m)					Controls	Total
	Prenatal	0-3	4-11	12 +	Unknown		
Nonparticipant	396	84	35	53	21	435	1,024
AFDC	58	10	6	1	3	18	96
Food Stamps	295	73	30	33	8	140	579
AFDC and Food Stamps	262	58	19	18	16	98	471
Total	1,011	225	90	105	48	691	2,170

Arm Circumference, Triceps Skinfold, Subscapular Skinfold

Participant Group	Age at WIC Inception (m)					Controls	Total
	Prenatal	0-3	4-11	12 +	Unknown		
Nonparticipant	375	82	35	48	20	420	980
AFDC	56	10	5	0	3	17	91
Food Stamps	293	73	29	34	8	139	576
AFDC and Food Stamps	258	60	18	17	15	94	462
Total	982	225	87	99	46	670	2,109

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship. See Table II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-C-4.11

Frequency of Aberrant Growth and Receipt of Welfare
(AFDC) and Food Stamps

	Age at WIC Inception (m) ^a					
Participant Group	Prenatal	0-3	4-11	12+	Unknown	Controls
<u>Adjusted for Age and Sex of Child</u>						
Weight <10 Percentile						
Nonparticipant	0.0098	0.0051	-0.0275	0.0877	-0.1152	0.1149
AFDC	0.0856	0.1474	0.1140	0.9423**	-0.0527	0.0535
Food Stamps	0.0102	0.0640	0.0757	-0.0095	0.1256	0.1264
AFDC and FS	-0.0118	-0.0246	0.0521	-0.0019	0.0859	0.1610
	MSE = 0.1170808					
Weight >90 Percentile						
Nonparticipant	-0.0175	0.0176	0.0433	0.0267	0.0204	0.1228
AFDC	-0.1463	-0.0894	-0.2843	-0.2749	-0.2912	0.2804
Food Stamps	-0.0632	-0.0966*	-0.1505*	-0.0393	-0.1784	0.1708
AFDC and FS	0.0008	-0.0142	-0.0465	-0.0718	-0.0755	0.1427
	MSE = 0.1069706					
Height <10 Percentile						
Nonparticipant	-0.0077	0.0565	0.0520	0.0226	-0.0768	0.1230
AFDC	0.0139	0.0977	0.0598	0.8584*	0.2184	0.1090
Food Stamps	0.0817*	0.0724	0.0701	-0.0227	0.1448	0.1045
AFDC and FS	0.0309	-0.0365	0.1281	0.1885*	0.1081	0.1374
	MSE = 0.1228406					
Height >90 Percentile						
Nonparticipant	0.0097	0.0164	-0.0635	-0.0116	0.1007	0.0903
AFDC	-0.0858	-0.1268	-0.2239	-0.2095	-0.2218	0.2227
Food Stamps	0.0149	-0.0089	0.0501	0.0467	-0.0785	0.0784
AFDC and FS	-0.0650	0.0047	-0.0831	-0.1843*	-0.0605	0.1868
	MSE = 0.09336978					
Head Circumference <10 Percentile						
Nonparticipant	0.0209	-0.0248	-0.0863	-0.0872	-0.1264	0.2676
AFDC	-0.1884	-0.0241	0.0695	0.5320	-0.0967	0.4366
Food Stamps	-0.0124	0.0541	-0.0222	0.0333	0.0773	0.3077
AFDC and FS	-0.0567	-0.0152	0.0494	0.1313	0.0815	0.2802
	MSE = 0.1972827					
Head Circumference >90 Percentile						
Nonparticipant	0.0314	0.0575	0.0289	-0.0239	0.0086	0.0856
AFDC	-0.1324	-0.2235	-0.2197	-0.2420	0.1000	0.2186
Food Stamps	0.0407	-0.0095	0.0270	0.0497	-0.0712	0.0671
AFDC and FS	0.0276	-0.0151	-0.0028	-0.1115	0.0141	0.1051
	MSE = 0.0909164					
Arm Circumference <10 Percentile						
Nonparticipant	0.0556*	-0.0434	-0.0592	-0.0101	0.1376	0.1613
AFDC	0.0151	-0.0313	0.0745	.	0.1902	0.1216
Food Stamps	0.0531	0.0888	0.0015	-0.0793	-0.0411	0.1528
AFDC and FS	0.0650	0.0794	0.0177	0.1239	0.1398	0.1316
	MSE = 0.1452744					
<u>Adjusted for All Covariates</u>						
Arm Circumference >90 Percentile						
Nonparticipant	0.0167	0.0089	0.0868	-0.0003	-0.0391	0.0906
AFDC	-0.1538	-0.1275	-0.2245	.	-0.2212	0.2282
Food Stamps	-0.0085	0.0062	-0.0193	-0.0484	-0.1198	0.1267
AFDC and FS	-0.0446	-0.0594	0.0516	-0.1409	0.0054	0.1223
	MSE = 0.09140155					

(continued)

Table VI-C-4.11 (continued)

	Age at WIC Inception (m) ^a					
Participant Group	Prenatal	0-3	4-11	12+	Unknown	Controls
Triceps Skinfold <10 Percentile						
Nonparticipant	0.0482	-0.0161	-0.0343	0.0589	-0.0918	0.6402
AFDC	-0.0835	0.1000	-0.1138	.	0.2976	0.7117
Food Stamps	0.0327	0.0511	0.2133*	-0.0380	-0.0587	0.5622
AFDC and FS	0.1010	0.0738	0.0900	0.1221	0.0810	0.5859
	MSE = 0.2280819					
Triceps Skinfold >90 Percentile						
Nonparticipant	-0.0002	-0.0061	-0.0046	0.0100	-0.0069	0.0070
AFDC	0.0222	0.0041	0.0033	.	-0.0004	-0.0031
Food Stamps	-0.0013	0.0005	-0.0246	0.0262	-0.0261	0.0266
AFDC and FS	-0.0144	0.0028	-0.0280	-0.0386	0.0322	0.0299
	MSE = 0.01491479					
Subscapular Skinfold <10 Percentile						
Nonparticipant	0.0286	-0.0503	0.0150	-0.1106	-0.0099	0.4588
AFDC	-0.0337	0.1366	-0.1791	.	0.4131	0.5784
Food Stamps	0.0203	-0.0652	-0.0888	-0.0503	-0.0773	0.4581
AFDC and FS	0.0839	0.0956	0.2002	0.0604	0.0164	0.4283
	MSE = 0.246564					
Subscapular Skinfold >90 Percentile						
Nonparticipant	0.0008	0.0294	0.0275	0.0051	-0.0332	0.0327
AFDC	0.0220	0.0053	0.0016	.	-0.0038	-0.0024
Food Stamps	-0.0302	0.0123	-0.0794*	0.0262	-0.0841	0.0837
AFDC and FS	-0.0307	-0.0344	-0.0477	-0.0004	0.0107	0.0501
	MSE = 0.03932408					
Adjusted for All Covariates						
Weight <10 Percentile						
Nonparticipant	0.0102	0.0007	-0.0161	0.0870	-0.1264	0.1175
AFDC	0.0843	0.1152	0.0533	0.8561*	-0.0634	0.0548
Food Stamps	0.0109	0.0458	0.0651	-0.0024	0.1276	0.1229
AFDC and FS	-0.0260	-0.0277	0.0415	-0.0465	0.0823	0.1753
	MSE = 0.1134997					
Weight >90 Percentile						
Nonparticipant	-0.0261	0.0139	0.0304	0.0301	0.0310	0.1313
AFDC	-0.1721*	-0.0932	-0.2596	-0.4385	-0.2408	0.3002
Food Stamps	-0.0646	-0.0937*	-0.1545*	-0.0379	-0.2007	0.1721
AFDC and FS	0.0074	-0.0157	-0.0276	-0.0508	-0.0656	0.1249
	MSE = 0.1042075					
Height <10 Percentile						
Nonparticipant	0.0043	0.0627	0.0651	0.0287	-0.0784	0.1061
AFDC	0.0312	0.1110	0.0267	0.8347*	0.1735	0.1096
Food Stamps	0.0834*	0.0675	0.0639	-0.0259	0.1260	0.1030
AFDC and FS	0.0400	-0.0251	0.1290	0.1662	0.1088	0.1558
	MSE = 0.1206488					
Height >90 Percentile						
Nonparticipant	0.0011	0.0142	-0.0687	-0.0088	0.1137	0.0921
AFDC	-0.1064	-0.1463	-0.1836	-0.2770	-0.1749	0.2437
Food Stamps	0.0091	-0.0144	0.0485	0.0452	-0.1007	0.0882
AFDC and FS	-0.0715*	-0.0094	-0.0590	-0.1597*	-0.0547	0.1845
	MSE = 0.09001935					
Head Circumference <10 Percentile						
Nonparticipant	0.0179	-0.0195	-0.0896	-0.0653	-0.1246	0.2906
AFDC	-0.1731	-0.0242	0.0280	0.4430	-0.1103	0.3997
Food Stamps	-0.0169	0.0629	-0.0157	0.0285	0.0913	0.2967
AFDC and FS	-0.0396	0.0035	0.0522	0.0908	0.0954	0.2382
	MSE = 0.1910046					

(continued)

Table VI-C-4.11 (continued)

	Age at WIC Inception (m) ^a					
Participant Group	Prenatal	0-3	4-11	12+	Unknown	Controls
Head Circumference >90 Percentile						
Nonparticipant	0.0206	0.0555	0.0301	-0.0250	0.0034	0.0913
AFDC	-0.1576	-0.2425*	-0.2167	-0.3094	0.1193	0.2381
Food Stamps	0.0369	-0.0137	0.0279	0.0558	-0.0722	0.0707
AFDC and FS	0.0090	-0.0317	-0.0093	-0.0999	-0.0043	0.1141
	MSE = 0.09019685					
Arm Circumference <10 Percentile						
Nonparticipant	0.0466	-0.0433	-0.0458	-0.0123	0.1166	0.1677
AFDC	-0.0101	-0.0755	0.0117	.	0.1878	0.1341
Food Stamps	0.0532	0.0793	0.0121	-0.0753	-0.0930	0.1505
AFDC and FS	0.0605	0.0778	-0.0209	0.1006	0.1441	0.1368
	MSE = 0.1426701					
Arm Circumference >90 Percentile						
Nonparticipant	0.0205	0.0157	0.0808	0.0001	-0.0343	0.0921
AFDC	-0.1644*	-0.1356	-0.2399	.	-0.2115	0.2474
Food Stamps	-0.0050	0.0160	-0.0330	-0.0338	-0.1045	0.1206
AFDC and FS	-0.0391	-0.0591	0.0614	-0.1349	0.0091	0.1126
	MSE = 0.09097548					
Triceps Skinfold <10 Percentile						
Nonparticipant	0.0483	-0.0150	-0.0280	0.0919	-0.0917	0.6296
AFDC	-0.1099	0.0914	-0.1258	.	0.2745	0.7168
Food Stamps	0.0285	0.0536	0.2256*	-0.0342	-0.0694	0.5767
AFDC and FS	0.0663	0.0388	0.0430	0.1116	0.0681	0.6169
	MSE = 0.2248216					
Triceps Skinfold >90 Percentile						
Nonparticipant	0.0001	-0.0041	-0.0042	0.0079	-0.0086	0.0068
AFDC	0.0276	0.0023	-0.0083	.	0.0134	-0.0026
Food Stamps	0.0018	0.0033	-0.0278	0.0295	-0.0339	0.0236
AFDC and FS	-0.0094	0.0052	-0.0323	-0.0402	0.0339	0.0278
	MSE = 0.0149036					
Adjusted for All Covariates						
Subscapular Skinfold <10 Percentile						
Nonparticipant	0.0223	-0.0625	0.0248	-0.1040	-0.0084	0.4461
AFDC	-0.0185	0.1099	-0.1547	.	0.3934	0.5835
Food Stamps	0.0276	-0.1054	-0.0959	-0.0488	-0.1054	0.4684
AFDC and FS	0.0607	0.0684	0.1636	0.0449	0.0182	0.4667
	MSE = 0.2444028					

(continued)

Table VI-C-4.11 (continued)

Participant Group	Age at WIC Inception (m) ^a					Controls
	Prenatal	0-3	4-11	12+	Unknown	
Subscapular Skinfold >90 Percentile						
Nonparticipant	-0.0011	0.0319	0.0230	-0.0041	-0.0415	0.0438
AFDC	0.0286	0.0168	-0.0298	.	0.0184	-0.0046
Food Stamps	-0.0264	0.0191	-0.0867*	0.0347	-0.0805	0.0718
AFDC and FS	-0.0250	-0.0262	-0.0501	-0.0124	0.0191	0.0361
	MSE = 0.03863709					

Weight, Height, Head Circumference

Participant Group	Age of WIC Inception (m)						Total
	Prenatal	0-3	4-11	12 +	Unknown	Controls	
Nonparticipant	397	84	35	53	21	435	1,025
AFDC	58	10	6	1	3	18	96
Food Stamps	295	73	30	33	8	141	948
AFDC and Food Stamps	<u>262</u>	<u>58</u>	<u>19</u>	<u>18</u>	<u>16</u>	<u>98</u>	<u>471</u>
Total	1,012	225	90	105	48	692	2,540

Arm Circumference, Triceps Skinfold, Subscapular Skinfold

Participant Group	Age of WIC Inception (m)						Total
	Prenatal	0-3	4-11	12 +	Unknown	Controls	
Nonparticipant	375	82	35	48	20	420	980
AFDC	56	10	5	0	3	17	91
Food Stamps	293	73	29	34	8	139	576
AFDC and Food Stamps	<u>258</u>	<u>60</u>	<u>18</u>	<u>17</u>	<u>15</u>	<u>94</u>	<u>462</u>
Total	982	225	87	99	46	670	2,109

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Age-adjustment includes second order term (age²) to account for nonlinearity of relationship. See Table II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-C-4.12

Anthropometric Indices and Maternal Education

	Age at WIC Inception (m)					
Maternal Education (yrs)	Prenatal	0-3	4-11	12+	Unknown	Controls
<u>Adjusted for Age and Sex of Child</u>						
Weight (kg)						
< 12	-0.1031	-0.0926	-0.3235	-0.2810	-0.4751	12.9539
12	0.0333	-0.3429	-0.2561	0.2719	0.1871	12.8481
> 12	-0.0574	0.6448	-0.7583	-0.0076	0.2133	13.2103
	MSE = 3.772801					
Height (cm)						
< 12	-0.6933	-0.5943	-0.9973	-0.7178	-0.6960	87.9332
12	-0.5398	-1.1243	0.0787	-1.0981	-0.5320	88.0061
> 12	-0.2993	-1.2748	-3.1724*	-0.3276	1.0350	88.4796
	MSE = 27.16589					
Quetelet's Index (kg X 100/cm ²)						
< 12	0.0012	0.0019	0.0001	-0.0018	-0.0065	0.1674
12	0.0034	0.0025	-0.0038	0.0064	0.0063	0.1648
> 12	0.0002	0.0110*	0.0023	0.0011	-0.0023	0.1683
	MSE = 0.0005452796					
Head Circumference (cm)						
< 12	-0.0237	-0.2868	-0.3617	-0.8688**	-0.2003	47.9275
12	0.1481	0.2484	0.5224	0.1277	-0.0658	48.0197
> 12	0.3713	-0.2620	-0.2700	0.6458	-0.8038	48.0858
	MSE = 4.315935					
Arm Circumference (cm)						
< 12	-0.3574**	-0.4023*	0.0166	-0.4110	-0.8325*	16.1057
12	0.0262	0.0017	-0.0231	0.2609	-0.1851	15.9873
> 12	0.0968	0.1810	0.2204	0.0580	-3.3735**	15.9015
	MSE = 2.518752					
Triceps Skinfold (mm)						
< 12	-0.3468*	-0.1877	-0.3084	-0.4342	-0.5350	6.5667
12	-0.0967	0.1053	-0.0082	0.5164	0.4133	6.4408
> 12	0.3606	-0.5611	-0.6290	0.9552	0.8122	6.3055
	MSE = 5.971202					
Subscapular Skinfold (mm)						
< 12	-0.4201**	-0.1733	-0.1790	-0.1920	-0.5025	4.6843
12	0.0246	0.3114	-0.0075	0.4781	0.1666	4.4039
> 12	0.2823	0.1588	-0.1064	1.2152*	0.3298	4.1281*
	MSE = 3.128503					
<u>Adjusted for All Covariates</u>						
Weight (kg)						
< 12	-0.1363	-0.1301	-0.2585	-0.2198	-0.4658	13.0060
12	0.0246	-0.2538	-0.2988	0.2537	0.3733	12.8211
> 12	-0.1809	0.4627	-0.5409	-0.0201	0.1209	13.1677
	MSE = 3.584561					
Height (cm)						
< 12	-1.0428**	-0.9883	-1.0083	-0.5441	-1.1235	88.3381
12	-0.6412	-1.0999	-0.0124	-1.1314	-0.1609	87.9088
> 12	-0.6665	-1.8524	-2.5784	-0.2444	0.8486	88.2876
	MSE = 25.43463					
Quetelet's Index (kg X 100/cm ²)						
< 12	0.0021	0.0029	0.0007	-0.0015	-0.0045	0.1665
12	0.0037	0.0040	-0.0041	0.0066	0.0069	0.1647
> 12	-0.0000	0.0104*	0.0032	0.0008	-0.0041	0.1686
	MSE = 0.0005405151					

(continued)

Table VI-C-4.12 (continued)

	Age at WIC Inception (m)					
Maternal Education (yrs)	Prenatal	0-3	4-11	12+	Unknown	Controls
Head Circumference (cm)						
< 12	-0.1192	-0.3863	-0.3711	-0.8147*	-0.3394	48.0402
12	0.1229	0.2500	0.6157	0.0621	-0.0190	47.9811
> 12	0.3940	-0.2237	-0.0339	0.7050	-0.9096	47.9933
	MSE = 4.173167					
Arm Circumference (cm)						
< 12	-0.3504**	-0.4047*	-0.0189	-0.3901	-0.8152*	16.1549
12	0.0982	0.0739	-0.0768	0.2726	-0.0992	15.9086
> 12	0.0971	0.1459	0.2366	-0.0592	-3.2476**	15.7995
	MSE = 2.485608					
Triceps Skinfold (mm)						
< 12	-0.3142	-0.2270	-0.2632	-0.5084	-0.5118	6.5392
12	-0.0866	0.1377	-0.1854	0.3769	0.5015	6.4380
> 12	0.3063	-0.5181	-0.7639	0.6727	0.1597	6.4383
	MSE = 5.78824					
Subscapular Skinfold (mm)						
< 12	-0.3769**	-0.1254	-0.1403	-0.2200	-0.3776	4.6460
12	0.0509	0.4091	-0.1541	0.4076	0.2116	4.3864
> 12	0.1885	0.1445	-0.2139	1.0755	0.2721	4.2193*
	MSE = 3.04916					

Weight, Height, Quetelet's Index, Head Circumference

Maternal Education (yrs)	Age at WIC Inception (m)					Controls	Total
	Prenatal	0-3	4-11	12+	Unknown		
<12	554	117	42	48	25	306	1,092
12	347	85	33	47	20	258	790
>	92	23	13	10	3	119	260
Total	993	225	88	105	48	683	2,142

Arm Circumference, Triceps Skinfold, Subscapular Skinfold

Maternal Education (yrs)	Age at WIC Inception (m)					Controls	Total
	Prenatal	0-3	4-11	12+	Unknown		
<12	552	119	43	46	23	299	1,082
12	342	86	32	43	20	252	775
>	88	20	12	10	3	119	252
Total	982	225	87	99	46	670	2,109

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship. See Vol. II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-C-4.13
Anthropometric Indices and Annual Family Income

	Age at WIC Inception (m)					
Annual Family Income	Prenatal	0-3	4-11	12+	Unknown	Controls
<u>Adjusted for Age and Sex of Child</u>						
Weight (kg)						
3000--	0.0286	0.0441	0.3002	-0.4556	-0.0859	12.8882
< 3000	-0.2951	-0.7472	0.3022	0.7056	-0.2859	13.2855
7000--	-0.2313	-0.1355	-0.7278	0.2313	-0.1082	12.9922
13000--	0.0186	0.2694	-0.3641	0.3444	0.6314	12.8615
Missing	0.0817	-0.5644	-0.5972	-1.2177	-2.5391*	12.9518
	MSE = 3.775921					
Height (cm)						
3000--	-0.0977	-0.4249	0.0266	-0.3353	-0.3128	87.5247
< 3000	-1.3424	-0.8553	2.2510	-1.5819	-2.183	88.7820
7000--	-1.1535**	-1.0798	-2.4427*	-0.5631	0.3844	88.0608
13000--	0.1393	-0.3023	-2.0225	0.2033	-0.0646	88.3020
Missing	-0.6092	-2.4374*	-2.2692	-4.4791*	-4.4698	88.5604
	MSE = 27.03868					
Quetelet's Index (kg X 100/cm²)						
3000--	0.0005	0.0042	-0.0044	-0.0038	-0.0011	0.1674
< 3000	0.0026	-0.0064	-0.0029	0.0128	0.0059	0.1681
7000--	0.0021	-0.0042	0.0009	0.0025	-0.0047	0.1672
13000--	-0.0003	0.0033	0.0023	0.0058	0.0095	0.1644
Missing	0.0037	0.0036	0.0001	-0.0019	-0.0172	0.1640
	MSE = 0.0005462315					
Head Circumference (cm)						
3000--	-0.1026	-0.2033	-0.2580	-0.7382	-0.4231	47.9975
< 3000	0.3609	-0.9074	-0.6891	-0.9635	-0.3805	48.0434
7000--	0.0386	0.2011	0.3178	0.4942	0.1496	47.8757
13000--	-0.0190	0.3848	0.1447	0.4877	-0.0542	48.2131
Missing	0.3580	0.0035	0.2284	-2.1054**	-0.5694	47.9916
	MSE = 4.313811					
Arm Circumference (cm)						
3000--	-0.3522*	-0.1748	-0.2829	-0.2423	-0.0997	16.1643
< 3000	-0.3098	-0.6368	0.0874	-0.2214	-1.2311	16.2724
7000--	-0.0564	-0.1271	0.2762	0.2862	-0.7032	15.9416
13000--	0.0507	0.0166	-0.1793	-0.1031	-2.1340**	15.9783
Missing	-0.1337	-0.3492	0.2836	-0.5822	-1.1016	15.8224
	MSE = 2.53589					
Triceps Skinfold (mm)						
3000--	-0.1045	0.2367	-0.0964	0.2469	-0.1843	6.5579
< 3000	0.1125	-0.8326	-0.7932	-0.6295	-0.6574	6.3193
7000--	-0.4626*	-0.3946	-0.4690	-0.0813	0.3264	6.5687
13000--	0.3318	1.0659	0.5531	1.5286*	0.1261	5.8938*
Missing	-0.8509*	-1.2566*	-0.3456	-0.8016	-0.5364	7.0481
	MSE = 5.948946					
Subscapular Skinfold (mm)						
3000--	-0.1751	0.2081	-0.2520	-0.2645	-0.2884	4.6901
< 3000	-0.1147	-0.8590*	-0.0500	0.6447	0.5348	4.4225
7000--	-0.2801	-0.0315	-0.2235	0.3601	-0.2775	4.5261
13000--	0.2422	0.9194*	0.4624	1.3837**	0.2007	3.9466***
Missing	-0.6281*	-0.3892	-0.1163	-0.6105	-0.6406	4.7126
	MSE = 3.110078					

(continued)

Table VI-C-4.13 (continued)

	Age at WIC Inception (m)					
Annual Family Income	Prenatal	0-3	4-11	12+	Unknown	Controls
<u>Adjusted for All Covariates</u>						
Weight (kg)						
3000--	-0.0408	0.0042	-0.3246	-0.3341	0.0243	12.9276
< 3000	-0.2717	-0.6722	0.2286	0.5969	0.1506	13.2031
7000--	-0.1280	-0.0355	-0.4991	0.3243	-0.1417	12.9469
13000--	0.0192	0.3598	-0.3859	0.2060	0.6667	12.8213
Missing	-0.0517	-0.7211	-0.5434	-1.3412*	-2.3238*	13.0614
		MSE =	3.586286			
Height (cm)						
3000--	-0.5305	-0.8016	-0.1666	-0.0518	-0.4491	87.7827
< 3000	-1.3951	-0.8390	2.1670	-1.7279	-1.4562	88.5144
7000--	-1.0632*	-1.0989	-1.8690	-0.2931	-0.0823	88.1167
13000--	-0.0552	-0.1808	-2.3333	-0.1482	0.3141	88.2910
Missing	-1.4338	-3.4207**	-2.4249	-5.0568**	-3.9721	89.1776
		MSE =	25.32752			
Quetelet's Index (kg x 100/cm ²)						
3000--	0.0013	0.0050	-0.0039	-0.0029	0.0007	0.1668
< 3000	0.0030	-0.0057	-0.0037	0.0121	0.0090	0.1680
7000--	0.0031	0.0059	0.0014	0.0028	-0.0037	0.1665
13000--	0.0002	0.0045	0.0030	0.0056	0.0083	0.1643
Missing	0.0049	0.0049	0.0011	-0.0016	-0.0157	0.1630
		MSE =	0.0005413659			
Head Circumference (cm)						
3000--	-0.2163	-0.2671	-0.2768	-0.6676	-0.5186	48.1255
< 3000	0.3965	-0.8362	-0.4740	-0.9753	-0.2477	48.0570
7000--	0.1042	0.2379	0.4935	0.5252	0.1537	47.7797
13000--	-0.0978	0.3221	0.2120	0.4095	-0.1010	48.0708
Missing	0.1463	-0.3243	0.0869	-2.2632**	-0.8394	48.2553
		MSE =	4.151141			
Arm Circumference (cm)						
3000--	-0.2874*	-0.1344	-0.2621	-0.1592	-0.0070	16.1182
< 3000	-0.2969	-0.5866	-0.0284	-0.2129	-1.0029	16.2349
7000--	0.0288	-0.0844	0.3175	0.3155	-0.6731	15.8950
13000--	0.1386	0.0746	-0.2478	-0.1919	-2.1032**	15.9242
Missing	-0.1729	-0.3623	0.1686	-0.7276	-0.9165	15.9284
		MSE =	2.505389			
Triceps Skinfold (mm)						
3000--	-0.0670	0.2293	-0.1581	0.1331	-0.1893	6.4632
< 3000	0.1596	-0.6409	-0.8254	-0.4777	-0.3360	6.1645
7000--	-0.4288*	-0.4354	-0.4613	-0.2873	0.2131	6.6079
13000--	0.5205	1.0731	0.4530	1.2152	0.3768	5.9532
Missing	-0.8443*	-1.0471	-0.4294	-0.6679	-0.4771	7.1822*
		MSE =	5.772532			
Subscapular Skinfold (mm)						
3000--	-0.0788	0.2992	-0.2467	-0.2796	-0.1405	4.5862
< 3000	-0.1510	-0.7982*	-0.1812	0.5916	0.8342	4.3816
7000--	-0.2542	0.0295	-0.1950	0.2844	-0.2370	4.5441
13000--	0.3341	1.0997**	0.3102	1.2531*	0.1263	3.9904**
Missing	-0.5857*	-0.2971	-0.2233	-0.6323	-0.6176	4.7021
		MSE =	3.034868			

(continued)

Table VI-C-4.13 (continued)

Annual Family Income	Age at WIC Inception (m)					Unknown	Controls
	Prenatal	0-3	4-11	12+			

Weight, Height, Quetelet's Index, Head Circumference

Annual Family Income (dollars/100)	Age at WIC Inception (m)					Controls	Total
	Prenatal	0-3	4-11	12 +	Unknown		
3,000-	365	94	27	31	16	190	723
<3,000	150	26	12	11	7	56	262
7,000-	301	56	26	40	18	253	694
13,000-	81	24	13	13	4	116	251
Missing	96	25	10	10	3	68	212
Total	993	225	88	105	48	683	2,142

Arm Circumference, Triceps Skinfold, Subscapular Skinfold

Annual Family Income (dollars/100)	Age at WIC Inception (m)					Controls	Total
	Prenatal	0-3	4-11	12 +	Unknown		
3,000-	363	93	27	30	15	187	715
<3,000	147	27	12	10	6	57	259
7,000-	296	57	27	35	18	245	678
13,000-	78	23	13	14	4	116	248
Missing	98	25	8	10	3	65	209
Total	982	225	87	99	46	670	2,109

*p < 0.05.

**p < 0.01.

***p < 0.001.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship. See Table II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-C-4.14

Anthropometric Indices and Maternal Marital Status

	Age at WIC Inception (m)					
Maternal Marital Status	Prenatal	0-3	4-11	12+	Unknown	Controls
<u>Adjusted for Age and Sex of Child</u>						
Weight (kg)						
Not Married	0.1025	-0.2389	-0.1306	0.5037	-0.1483	12.9516
Married	-0.2276	-0.0604	-0.5124	-0.2644	-0.2130	12.9662
		MSE =	3.771726			
Height (cm)						
Not Married	-0.0471	-0.2482	-0.2385	-0.9562	-0.9291	88.0046
Married	-1.1868**	-1.3363**	-1.3408	-0.8333	-0.3589	88.0882
		MSE =	27.02085			
Quetelet's Index (kg X 100/cm ²)						
Not Married	0.0016	-0.0016	0.0002	0.0069	-0.0011	0.1669
Married	0.0018	0.0060**	-0.0019	-0.0003	-0.0012	0.1664
		MSE =	0.0005451206			
Head Circumference (cm)						
Not Married	0.2046	-0.4055	-0.6206	-1.3111**	-0.5818	48.0111
Married	-0.0888	0.1072	0.3139	0.1672	0.0289	47.9838
		MSE =	4.307219			
Arm Circumference (cm)						
Not Married	-0.1431	-0.2608	0.1682	-0.0041	-0.3260	15.9751
Married	-0.1526	-0.1090	-0.0215	-0.0910	-0.8948**	16.0449
		MSE =	2.537486			
Triceps Skinfold (mm)						
Not Married	-0.2315	0.1006	0.2712	0.4213	-0.0751	6.4052
Married	-0.0757	-0.1942	-0.4829	-0.0188	0.0279	6.4996
		MSE =	5.971207			
Subscapular Skinfold (mm)						
Not Married	-0.2185	0.0078	0.1825	0.9422**	0.4913	4.4444
Married	-0.0576	0.1545	-0.2128	-0.0902	-0.4287	4.4937
		MSE =	3.121836			

(continued)

Table VI-C-4.14 (continued)

	Age at WIC Inception (m)					
Maternal Marital Status	Prenatal	0-3	4-11	12+	Unknown	Controls
<u>Adjusted for All Covariates</u>						
Weight (kg)						
Not Married	0.0995	-0.1822	0.0241	0.4934	-0.0087	12.9340
Married	-0.1889	-0.0605	-0.4961	-0.2214	-0.1617	12.9494
		MSE = 3.581901				
Height (cm)						
Not Married	-0.2095	-0.4161	0.1782	-0.6608	-0.8057	87.9909
Married	-1.1995**	-1.4928**	-1.3907	-0.8774	-0.3972	88.1746
		MSE = 25.37712				
Quetelet's Index (kg X 100/cm ²)						
Not Married	0.0022	-0.0004	0.0004	0.0061	0.0002	0.1665
Married	0.0024	0.0068**	-0.0015	0.0005	-0.0006	0.1660
		MSE = 0.0005405174				
Head Circumference (cm)						
Not Married	0.1989	-0.3511	-0.4234	-1.2343**	-0.4734	48.0872
Married	-0.0795	0.0715	0.3415	0.1364	0.0086	47.9260
		MSE = 4.155174				
Arm Circumference (cm)						
Not Married	-0.1010	-0.2261	0.1215	-0.0200	-0.2908	15.9912
Married	-0.1215	-0.0981	-0.0457	-0.0768	-0.8530**	16.0032
		MSE = 2.508512				
Triceps Skinfold (mm)						
Not Married	-0.1625	0.1683	0.3107	0.3661	0.0098	6.3676
Married	-0.1258	-0.2591	-0.5967	-0.1779	-0.0389	6.5352
		MSE = 5.783523				
Subscapular Skinfold (mm)						
Not Married	-0.1974	0.0498	0.1264	0.8347*	0.5763	4.3788
Married	-0.0876	0.1741	-0.2767	-0.1116	-0.4826	4.5444
		MSE = 3.062364				

Weight, Height, Quetelet's Index, Head Circumference

Maternal Marital Status	Age at WIC Inception (m)					Controls	Total
	Prenatal	0-3	4-11	12 +	Unknown		
Other (Not Married)	470	90	32	32	18	195	837
Married	523	135	56	73	30	488	1,305
Total	993	225	88	105	48	683	2,142

Arm Circumference, Triceps Skinfold, Subscapular Skinfold

Maternal Marital Status	Age at WIC Inception (m)					Controls	Total
	Prenatal	0-3	4-11	12 +	Unknown		
Other (Not Married)	470	91	30	34	16	195	836
Married	512	134	57	65	30	475	1,273
Total	982	225	87	99	46	670	2,109

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aAge adjustment includes second order term (age²) to account for nonlinearity of relationship. See Table II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-C-4.15

Anthropometric Indices and Presence of Father Figure

	Age at WIC Inception (m) ^a					
Father Present	Prenatal	0-3	4-11	12+	Unknown	Controls
<u>Adjusted for Age and Sex of Child</u>						
Weight (kg)						
Father Absent	0.1624	-0.2799	-0.0286	0.0501	-0.2516	12.9764
Father Present	-0.2528*	-0.0613	-0.5386*	-0.0595	-0.1660	12.9574
	MSE =	3.766408				
Height (cm)						
Father Absent	-0.0879	-0.2451	0.2848	-2.0145	-1.9772	88.2489
Father Present	-1.1606**	-1.2844**	-1.5511*	-0.4563	-0.0203	88.0052
	MSE =	26.88105				
Quetelet's Index (kg X 100/cm²)						
Father Absent	0.0023	-0.0020	-0.0005	0.0050	0.0008	0.1663
Father Present	0.0016	0.0056*	-0.0013	0.0007	-0.0019	0.1666
	MSE =	0.0005454647				
Head Circumference (cm)						
Father Absent	0.0915	-0.4370	-0.7789	-1.6245**	-0.5383	48.1193
Father Present	-0.0233	0.0573	0.3095	0.2033	-0.0697	47.9499
	MSE =	4.309086				
Arm Circumference (cm)						
Father Absent	-0.0822	-0.2153	0.1152	0.0385	0.0495	15.9990
Father Present	-0.2108*	-0.1542	0.0092	-0.1004	-0.9643**	16.0335
	MSE =	2.535363				
Triceps Skinfold (mm)						
Father Absent	-0.2944	-0.3135	0.1829	0.3590	0.0729	6.4588
Father Present	-0.0675	0.0369	-0.4004	0.0336	-0.0419	6.4765
	MSE =	5.971865				
Subscapular Skinfold (mm)						
Father Absent	-0.3438*	-0.2073	0.2067	0.6023	0.3166	4.5915
Father Present	-0.0421	0.2234	-0.2122	0.1207	-0.2643	4.4430
	MSE =	3.128598				

(continued)

Table VI-C-4.15 (continued)

	Age at WIC Inception (m) ^a						
Father Present	Prenatal	0-3	4-11	12+	Unknown	Controls	
<u>Adjusted for All Covariates</u>							
Weight (kg)							
Father Absent	0.1788	-0.2561	0.0357	0.0203	-0.0578	12.9430	
Father Present	-0.2178	-0.0285	-0.4619	-0.0140	-0.1183	12.9414	
		MSE =	3.578342				
Height (cm)							
Father Absent	-0.1776	-0.4661	0.4120	-1.8001	-1.6912	88.1691	
Father Present	-1.1727**	-1.3633**	-1.3984*	-0.4566	-0.0803	88.0838	
		MSE =	25.29855				
Quetelet's Index (KG X 100/CM2)							
Father Absent	0.0028	-0.0010	-0.0005	0.0041	0.0022	0.1659	
Father Present	0.0021	0.0065**	-0.0009	0.0015	-0.0013	0.1663	
		MSE =	0.0005405882				
Head Circumference (cm)							
Father Absent	0.1062	-0.3798	-0.5950	-1.5742**	-0.3491	48.1776	
Father Present	-0.0119	0.0438	0.3689	0.1879	-0.0923	47.9012	
		MSE =	4.152763				
Arm Circumference (cm)							
Father Absent	0.0037	-0.1641	0.0421	0.0256	0.1387	16.0218	
Father Present	-0.1753	-0.1225	0.0056	-0.0868	-0.9199**	15.9739	
		MSE =	2.501647				
Triceps Skinfold (mm)							
Father Absent	-0.1825	-0.2139	0.2491	0.2871	0.2382	6.3601	
Father Present	-0.1340	-0.0341	-0.5215	-0.1072	-0.1336	6.5372	
		MSE =	5.786254				
Subscapular Skinfold (mm)							
Father Absent	-0.3008	-0.1373	0.1499	0.4932	0.4112	4.5379	
Father Present	-0.0661	0.2424	-0.2720	0.0927	-0.2975	4.4694	
		MSE =	3.071845				

Weight, Height, Quetelet's Index, Head Circumference

	Age at WIC Inception (m)						
<u>Father Present</u>	<u>Prenatal</u>	<u>0-3</u>	<u>4-11</u>	<u>12 +</u>	<u>Unknown</u>	<u>Controls</u>	<u>Total</u>
Absent	419	76	28	28	14	168	733
Present	574	149	60	77	34	515	1,409
Total	993	225	88	105	48	683	2,142

Arm Circumference, Triceps Skinfold, Subscapular Skinfold

	Age at WIC Inception (m)						
<u>Father Present</u>	<u>Prenatal</u>	<u>0-3</u>	<u>4-11</u>	<u>12 +</u>	<u>Unknown</u>	<u>Controls</u>	<u>Total</u>
Absent	420	78	26	28	12	165	729
Present	562	147	61	71	34	505	1,380
Total	982	225	87	99	46	670	2,109

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aAge adjustment includes second order term (age²) to account for nonlinearity of relationship. See Table II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-C-4.16

Anthropometric Indices and Presence of Father
and Household Size

	Age at WIC Inception (m)					
Father Present and Household Size	Prenatal	0-3	4-11	12+	Unknown	Controls
<u>Adjusted for Age and Sex of Child^a</u>						
Weight (kg)						
Yes / 4+	-0.2174	-0.3290	-0.5857	0.0167	-0.1547	12.8732
No / 2	-0.2159	-0.9519*	-0.4140	-1.0392	-0.8914	13.2756
No / 3+	0.2490	-0.1346	0.1548	0.3245	-0.1404	12.8891
Yes / 3	-0.2114	0.4094	-0.4343*	-0.1715	-0.1687	13.0409
		MSE =	3.813781			
Height (cm)						
Yes / 4+	-1.1435	-1.5341	-1.5278	-0.3126	-0.1956	87.7372
No / 2	-0.2813	0.1571	2.4941	-1.0525	2.1325	87.5021
No / 3+	0.0757	-0.2719	-0.7756	-2.1958	-2.3076	88.3231
Yes / 3	-1.1613	-0.7552	-1.4006**	-0.6331	0.2373	88.2903
		MSE =	27.00099			
Quetelet's Index (kg X 100/cm²)						
Yes / 4+	0.0019	0.0034	-0.0030	0.0016	-0.0026	0.1666
No / 2	-0.0024	-0.0152**	-0.0157*	-0.0115	-0.0212**	0.1739
No / 3+	0.0028	0.0004	0.0065	0.0087	0.0033	0.1649
Yes / 3	0.0021	0.0091	0.0003	-0.0005	-0.0011	0.1665
		MSE =	0.0005562159			
Head Circumference (cm)						
Yes / 4+	-0.1092	0.1358	0.4928	0.4853	-0.2892	47.9547
No / 2	0.5078	-1.4220**	-0.7777	-4.0163**	-0.7044	47.9990
No / 3+	-0.0578	-0.2887	-0.6459	-0.9764	-0.5549	48.1570
Yes / 3	0.1083	-0.0061	0.2341	-0.1569	0.2699	47.8841
		MSE =	4.456645			
Arm Circumference (cm)						
Yes / 4+	-0.2348	-0.3141	0.1637	-0.0372	-1.3014**	15.9145
No / 2	-0.1764	-0.0628	-0.2318	-0.6386	-0.8921	16.1164
No / 3+	-0.0460	-0.2229	0.3631	0.2452	0.1657	15.9559
Yes / 3	-0.1706	0.1663	-0.1295	-0.1551	-0.5176**	16.1550
		MSE =	2.524336			
Triceps Skinfold (mm)						
Yes / 4+	0.0685	-0.0958	-0.3648	0.2145	-0.2156	6.3595
No / 2	-0.0757	-1.2380*	0.4028	2.1519*	-2.6318**	6.6656
No / 3+	-0.3599	-0.1157	-0.1162	-0.2508	0.3639	6.3917
Yes / 3	-0.2044	0.3116	-0.4505*	-0.2187	0.2006	6.5971
		MSE =	5.954446			
Subscapular Skinfold (mm)						
Yes / 4+	0.0614	0.0155	-0.1706	0.2391	-0.0604	4.3294
No / 2	-0.3072	-0.6865	-0.0651	1.4580*	-0.6277	4.6599
No / 3+	-0.3501	-0.1077	0.4139	0.3039	0.4216	4.5653
Yes / 3	-0.1412	0.6152	-0.2635	-0.0310	-0.5022**	4.5596
		MSE =	3.12493			

(continued)

Table VI-C-4.16 (continued)

	Age at WIC Inception (m)					
Father Present and Household Size	Prenatal	0-3	4-11	12+	Unknown	Controls
<u>Adjusted for All Covariates</u>						
Weight (kg)						
Yes / 4+	-0.1981	-0.3073	-0.4880	0.1128	-0.0182	12.8363
No / 2	-0.1368	-0.9605*	-0.3682	-0.9681	-1.1697*	13.1824
No / 3+	0.2265	-0.1405	0.2748	0.2594	0.0455	12.8854
Yes / 3	-0.1700	0.4340	-0.3784*	-0.1955	-0.2333	13.0583
Height (cm)						
Yes / 4+	-1.2060	-1.6387	-1.5466	-0.2057	0.0483	87.7622
No / 2	-0.1174	-0.0149**	-0.0164**	-0.0118	-0.0225**	0.1728
No / 3+	0.0030	0.0010	0.0074	0.0076	0.0042	0.1646
Yes / 3	-.0025	0.0095	-0.0001	0.0002	-0.0005	0.1665
Head Circumference (cm)						
Yes / 4+	-0.1163	0.1084	0.4547	0.5410	-0.3101	47.9199
No / 2	0.4621	-1.2687**	-0.5656	-3.9718**	-0.8308	48.1221
No / 3+	-0.0526	-0.2591	-0.5512	-9.9390	-0.3694	48.2237
Yes / 3	0.1748	0.0327	0.3847*	-0.2532	0.2370	47.8019
Arm Circumference (cm)						
Yes / 4+	-0.2162	-0.3064	0.1891	-0.0393	-1.2340*	15.8662
No / 2	-0.0387	-0.0720	-0.2029	-0.5248	-0.6216	16.0342
No / 3+	0.0192	-0.1726	0.3323	0.1939	0.2131	16.0115
Yes / 3	-0.1187	0.2048	-0.1343	-0.1520	-0.5040**	16.0869
Triceps Skinfold (mm)						
Yes / 4+	-0.0159	-0.2275	-0.5850	0.0398	-0.3337	6.4629
No / 2	0.0134	-1.1910*	0.4847	2.0536*	-3.2854**	6.4814
No / 3+	-0.2621	-0.0345	-.0969	-0.2981	0.5764	6.3353
Yes / 3	-0.2581	0.2594	-0.4692*	-0.3744	0.1375	6.6170
Subscapular Skinfold (mm)						
Yes / 4+	0.0312	0.0221	-0.2540	0.2159	-0.0773	4.3755
No / 2	-0.2790	-0.7188	-0.1952	1.4752*	-0.6496	4.5136
No / 3+	-0.3063	-0.0346	0.5147	0.1602	0.5105	4.5444
Yes / 3	-0.1650	0.6085	-0.2976	-0.1048	-0.5572**	4.5692

(continued)

Table VI-C-4.16 (continued)

	Age at WIC Inception (m)					
Father Present and Household Size	Prenatal	0-3	4-11	12+	Unknown	Controls
Weight, Height, Head Circumference						

Father Present and Household Size	Age at WIC Inception (m)					Controls	Total
	Prenatal	0-3	4-11	12+	Unknown		
Yes/4+	302	91	26	46	19	307	791
No/2	102	11	13	6	1	38	171
No/3+	327	65	16	22	13	115	558
Yes/3	<u>280</u>	<u>58</u>	<u>35</u>	<u>31</u>	<u>15</u>	<u>231</u>	<u>650</u>
Total	1,011	225	90	105	48	691	2170

Arm Circumference, Triceps Skinfold, Subscapular Skinfold

Father Present and Household Size	Age at WIC Inception (m)					Controls	Total
	Prenatal	0-3	4-11	12+	Unknown		
Yes/4+	290	90	27	46	19	258	730
No/2	100	12	12	7	1	39	171
No/3+	320	66	14	21	11	126	558
Yes/3	<u>272</u>	<u>57</u>	<u>34</u>	<u>25</u>	<u>15</u>	<u>247</u>	<u>650</u>
Total	982	225	87	99	46	670	2,109

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aAge adjustment includes second order term (age²) to account for nonlinearity of relationship. See Vol. II, Table VI-1 for full covariate list. Values are differences from control group means.

Table VI-D-1
Child Health Measures

	Age at WIC Inception (m)					
	Prenatal	0-3	4-11	12+	Unknown	Controls
Proportion Breastfed						
Age and sex adjusted ^a	-0.10	-0.12	0.05	-0.01	0.01	0.42
Fully adjusted	0.00	-0.05	0.07	0.02	0.05	0.36
n	1058	237	93	109	51	727
Duration Of Breastfeeding Among Breastfed Children (d)						
Age and sex adjusted	-3.86	33.00	-26.25	17.65	-38.16	160.94
Fully adjusted	5.41	-23.14	-12.83	17.91	-27.20	155.14
n	344	69	43	38	20	291
Proportion With Regular Source Of Medical Care						
Age and sex adjusted	0.03	0.07	0.09	0.04	0.04	0.88
Fully adjusted	0.04	0.07	0.08	0.04	0.05	0.88
n	1055	237	93	108	50	720
Proportion Using Preventive Health Care						
Age and sex adjusted	0.01	-0.01	0.02	0.00	-0.06	0.72
Fully adjusted	0.04	0.02	0.01	0.01	-0.03	0.70
n	1058	237	93	109	51	727
Proportion With Immunization Card Available						
Age and sex adjusted	0.00	0.04	0.07	0.11	0.12	0.47
Fully adjusted	0.03	0.06	0.09	0.11	0.13	0.46
n	1058	237	93	109	51	727
Proportion With Measles Immunization (children over 15 m)						
Age and sex adjusted	-0.07	0.02	-0.02	0.09	0.00	0.78
Fully adjusted	-0.03	0.04	-0.01	0.10	0.03	0.76
n	765	179	64	102	38	562
Proportion With Adequate DPT Immunization						
Age and sex adjusted	0.02	0.07	0.13	0.07	-0.07	0.46
Fully adjusted	0.05	0.10	0.16	0.09	-0.03	0.44
n	970	217	83	98	47	655
Proportion With Adequate Polio Immunization						
Age and sex adjusted	-0.02	0.05	0.01	0.01	-0.01	0.67
Fully adjusted	0.05	0.09	0.02	0.03	0.04	0.64
n	978	210	85	96	46	666

*p < 0.05.

**p < 0.01.

***p < 0.001.

^aAge adjustment includes second order term (age²) for nonlinearity of relationship. See Vol. II, Table VI-1 for full covariate list. Values are differences from the control group means.

Table VI-E-1

Multiple Regression Analysis: Peabody Picture Vocabulary Test

Variable	DF	Parameter estimate	Standard error	T ratio	Prob> T
<u>Peabody Picture Vocabulary Test raw score controlled for age and sex</u>					
INTERCEPT	1	129.237949	79.146731	1.6329	0.1032
KIDAGE	1	-4.439810	2.722691	-1.6307	0.1037
AGESQ	1	0.048441	0.023190	2.0889	0.0373
SEX	1	0.125267	1.308033	0.0958	0.9237
CATWINC1 ^a	1	-0.680313	1.528275	-0.4452	0.6564
CATWINC2 ^b	1	0.553493	2.617995	0.2114	0.8327
CATWINC3 ^c	1	-1.499524	3.513657	-0.4268	0.6698
CATWINC4 ^d	1	1.951788	2.159219	0.9039	0.3665
CATWINC5 ^e	1	0.822481	3.513030	0.2341	0.8150

MODEL: MODEL01	SSE	84101.41	F Ratio	18.26
	DFE	444	Prob>F	0.0001
DEP VAR: PVRS	MSE	189.417586	R-square	0.2476

Peabody Picture Vocabulary Test raw score controlled for all covariates

INTERCEPT	1	10.349060	70.315094	0.1472	0.8831
KIDAGE	1	-1.615431	2.344724	-0.6890	0.4912
AGESQ	1	0.023544	0.019946	1.1803	0.2385
SEX	1	-0.302984	1.127604	-0.2687	0.7883
CATRACE1	1	-8.891514	1.419267	-6.2649	0.0001
CATRACE2	1	2.436999	3.239786	0.7522	0.4524
CATLANG1	1	-8.271257	1.828741	-4.5229	0.0001
CATLANG2	1	1.295270	3.592046	0.3606	0.7186
INCOME	1	0.026927	0.016218	1.6604	0.0976
CATINC4	1	-3.281670	2.705204	-1.2131	0.2258
HHSIZE	1	-0.076905	0.421464	-0.1825	0.8553
MOMAGE	1	0.438677	0.177524	2.4711	0.0139
MOMED	1	0.201594	0.123779	1.6287	0.1042
FATED	1	0.607435	0.276457	2.1972	0.0286
CATFED3	1	-53.458814	23.247566	-2.2995	0.0220
CATMOCC1	1	2.556349	5.468292	0.4675	0.6404
CATMOCC2	1	1.383581	1.436249	0.9633	0.3360
CATMOCC3	1	8.580130	2.765834	3.1022	0.0021
CATMOCC4	1	-2.413745	1.544221	-1.5631	0.1188
CATFOCC1	1	0.643130	2.726739	0.2359	0.8137
CATFOCC2	1	2.295837	1.505702	1.5248	0.1281
CATFOCC3	1	-2.808029	2.504881	-1.1210	0.2629
CATFOCC4	1	-0.800498	2.049913	-0.3905	0.6964

(continued)

Table VI-E-1 (continued)

Variable	DF	Parameter estimate	Standard error	T ratio	Prob> T
Peabody Picture Vocabulary Test raw score controlled for all covariates					
MARITAL	1	1.762066	2.158965	0.8162	0.4149
LIVWFAT	1	1.385916	2.169041	0.6390	0.5232
CATMEMP1	1	1.042546	1.761773	0.5918	0.5543
CATMEMP2	1	2.621671	1.698919	1.5431	0.1236
CATFEMP1	1	1.759153	1.275209	1.3795	0.1685
CATFEMP2	1	0.979871	2.206340	0.4441	0.6572
AFDC	1	-0.394142	1.466167	-0.2688	0.7882
MEDICAID	1	4.671497	1.435634	3.2540	0.0012
CATFDST	1	-2.825638	1.452673	-1.9451	0.0524
SCHFOOD	1	1.004630	1.324038	0.7588	0.4484
BRTORDER	1	-2.037997	0.580413	-3.5113	0.0005
TWIN	1	-2.955554	3.853500	-0.7670	0.4435
MOMHT	1	0.327853	0.215750	1.5196	0.1294
SIBDEATH	1	-0.026881	2.754391	-0.0098	0.9922
MATBEVR	1	0.197329	0.071378	2.7646	0.0060
MISBEVR	1	1.133487	2.742545	0.4133	0.6796
CATWINC1 ^a	1	2.755188	1.346902	2.0456	0.0414
CATWINC2 ^b	1	2.150319	2.263576	0.9500	0.3427
CATWINC3 ^c	1	2.894399	3.035526	0.9535	0.3409
CATWOMC4 ^d	1	2.174690	1.869230	1.1634	0.2453
CATWINC5 ^e	1	4.304218	3.008416	1.4307	0.1533
MODEL: MODEL01	SSE	52207.09	F Ratio	10.85	
	DFE	409	Prob>F	0.0001	
DEP VAR: PVRS	MSE	127.645707	R-square	0.5329	

^aCATWINC1 = Prenatal entry into WIC.

^bCATWINC2 = Entry into WIC at 0-3 months of age.

^cCATWINC3 = Entry into WIC at 4-11 months of age.

^dCATWINC4 = Entry into WIC past 1 year of age.

^eCATWINC5 = Age of entry into WIC unknown.

Table VI-E-2

Psychological Measures by Age at WIC Inception^a

	Age at WIC inception (m)					
	Prenatal	0-3	4-11	12+	Unknown	Controls
Peabody Picture Vocabulary Test (raw score)						
Age and sex adjusted	-0.6803	0.5535	-1.5000	1.9518	0.8225	35.8007
Fully adjusted	2.7552*	2.1503	2.8944	2.1747	4.3042	34.1488
n	160	33	17	54	17	172
Forward Numerical Memory Test						
Age and sex adjusted	0.1388	0.2684	-0.0822	0.4289	0.7370	5.3522
Fully adjusted	0.1042	0.3216	0.0993	0.5709	0.9496	5.3260
n	159	31	18	58	21	175
Backward Numerical Memory Test						
Age and sex adjusted	-0.0367	-0.1928	-0.1892	0.4606	0.5135	0.7818
Fully adjusted	0.0588	-0.1258	0.1252	0.6599	0.6270	0.7028
n	137	25	16	42	16	143
Combined Forward And Backward Tests ^b						
Age and sex adjusted	0.1043	0.1293	-0.4014	0.7178	1.1160	6.0373
Fully adjusted	0.1049	0.3011	0.0663	1.0707	1.3670	5.9578
n	144	25	16	44	16	150
Creativity/Curoosity Scale						
Age and sex adjusted	0.4341	0.5166	0.6155	-2.4078	-0.3857	-0.0385
Fully adjusted	0.8344	0.4410	0.2411	-1.8509	0.4587	-0.2616
n	170	30	17	57	17	182
Irritability/Aggression Scale						
Age and sex adjusted	-0.6636	-1.5950	0.2492	-0.0926	-2.7605	0.2474
Fully adjusted	-1.1390	-1.4202	-0.2571	0.2643	-2.7086	0.3809
n	170	30	17	57	16	182
Overactivity/Short Attention Scale						
Age and sex adjusted	0.0831	-0.6588	1.7084	-0.5080	-1.1722	-0.0205
Fully adjusted	-0.6265	-0.7434	1.4706	-0.6283	-1.8722	0.2981
n	172	31	17	59	19	188
Isolation/Il-At-Ease Scale						
Age and sex adjusted	0.0143	-0.5398	0.2398	0.1938	-0.2392	0.1641
Fully adjusted	-0.6873	-0.8034	-0.5057	-0.4280	0.1604	0.5220
n	170	30	17	57	16	182

*p < 0.05.

**p < 0.01.

***p < 0.01.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship. See Vol. II, Table VI-1 for full covariate list. Values are differences from the control group means.

^b Child must have a backward score in order to have a combined score, unless forward score < 3, in which case the backward score was set to 0.

Table VI-E-3

Psychological Measures by Age at WIC Inception,
Currency of WIC Receipt, and Age

Age	WIC		0-3	4-11	12+	DK	Controls
4	Current	0.68	-9.17	10.77	6.20	9.13	34.37
	Past	0.36	4.50	-4.47	-0.00	1.92	
5	Past	-3.37	-4.34	-3.83	0.80	-4.08	38.99
Fully Adjusted							
4	Current	3.12	-3.88	14.02	4.15	0.85	34.57
	Past	2.92	5.21	-2.63	-0.45	6.22	
5	Past	2.06	-2.26	4.59	2.82	1.73	34.22
Cell Frequencies							
4	Current	36	4	3	10	2	118
	Past	86	21	8	18	10	
5	Past	38	8	6	26	5	54
Forward Numerical Memory Test							
Age	WIC		0-3	4-11	12+	DK	Controls
Age And Sex Adjusted							
4	Current	0.47	0.05	1.31	0.76	4.95	5.39
	Past	0.11	0.46	-0.27	0.53	1.01	
5	Past	0.04	-0.02	-0.79	0.11	-0.90	5.25
Fully Adjusted							
4	Current	0.39	-0.30	1.46	0.63	4.78	5.36
	Past	-0.01	0.49	-0.38	0.66	0.98	
5	Past	0.13	0.25	-0.34	0.44	-0.31	5.35
Cell Frequencies							
4	Current	38	4	4	12	2	120
	Past	83	20	8	19	12	
5	Past	38	7	6	27	7	55

(continued)

Table VI-E-3 (continued)

Backward Numerical Memory Test							
Age	WIC		0-3	4-11	12+	DK	Controls
Age And Sex Adjusted							
4	Current	0.34	0.18	0.83	0.77	-0.21	0.49
	Past	0.19	0.18	-0.25	0.27	1.60	
5	Past	-0.56	-1.10	-0.42	0.29	-0.94	1.19
Fully Adjusted							
4	Current	0.43	0.26	1.03	1.00	-1.08	0.46
	Past	0.20	0.06	0.05	0.66	1.52	
5	Past	-0.41	-0.69	-0.16	0.39	-0.50	1.17
Cell Frequencies							
4	Current	34	4	2	9	1	90
	Past	65	15	8	11	9	
5	Past	38	6	6	22	6	53
Combined Forward And Backward Tests							
Age	WIC		0-3	4-11	12+	DK	Controls
Age And Sex Adjusted							
4	Current	0.88	0.39	1.89	1.12	3.31	5.81
	Past	0.27	0.63	-0.39	0.92	2.83	
5	Past	-0.57	-0.92	-1.22	0.21	-1.76	6.24
Fully Adjusted							
4	Current	0.87	0.05	2.48	1.18	1.74	5.70
	Past	0.09	0.58	-0.32	1.51	2.62	
5	Past	-0.40	-0.06	-0.42	0.66	-0.75	6.47
Cell Frequencies							
4	Current	35	4	2	9	1	97
	Past	72	15	8	12	9	
5	Past	37	6	6	23	6	53
Creativity/Curiosity Scale							
Age	WIC		0-3	4-11	12+	DK	Controls
Age And Sex Adjusted							
4	Current	0.31	-1.88	0.29	-1.17	1.73	-14.37
	Past	0.41	0.67	1.31	-5.49	-0.38	
5	Past	0.44	1.27	-0.25	-0.02	-1.18	-13.57

(continued)

Table VI-E-3 (continued)

Fully Adjusted							
4	Current	0.80	-3.09	0.89	-0.96	0.72	-59.87
	Past	0.50	0.94	-0.25	-4.49	-0.64	
5	Past	1.29	0.84	0.79	0.18	1.98	-58.00
Cell Frequencies							
4	Current	38	4	4	12	2	132
	Past	93	19	1	22	10	
5	Past	39	7	5	23	5	57
Irritability/Aggression Scale							
Age	WIC	0-3	4-11	12+	DK	Controls	
Age And Sex Adjusted							
4	Current	2.12	-1.18	1.49	1.63	2.24	-10.64
	Past	-1.11	-1.63	0.79	-0.15	-2.02	
5	Past	-1.80	-1.37	-1.55	-1.15	-6.02	-10.74
Fully Adjusted							
4	Current	2.05	-0.94	1.54	1.75	4.70	19.56
	Past	-1.65	-1.63	1.24	-0.34	-1.48	
5	Past	-2.29	-0.81	-4.10	-0.09	-8.20	18.63
Cell Frequencies							
4	Current	38	4	4	12	2	125
	Past	93	19	8	22	9	
5	Past	39	7	5	23	5	57
Over/Short Attention Scale							
Age	WIC	0-3	4-11	12+	DK	Controls	
Age And Sex Adjusted							
4	Current	-1.57	1.72	1.11	0.42	4.72	-6.95
	Past	-0.59	-2.64	2.08	-1.65	-1.51	
5	Past	2.85	2.59	1.48	0.52	-2.50	-10.66
Fully Adjusted							
4	Current	-1.78	1.54	1.42	0.81	4.01	-0.70
	Past	-1.25	-2.62	3.18	-1.92	-1.82	
5	Past	1.99	2.35	-1.21	0.27	-4.15	-4.98
Cell Frequencies							
4	Current	39	4	4	12	2	130
	Past	94	19	8	22	11	
5	Past	39	8	5	25	6	58

(continued)

Table VI-E-3

Age	WIC	Isolation/Ill-At-Ease Scale				DK	Controls
		0-3	4-11	12+			
Age And Sex Adjusted							
4	Current	-0.37	-5.11	-1.00	-1.39	-2.17	16.65
	Past	-0.46	1.51	2.52	-0.15	-0.63	
5	Past	1.35	-3.67	-2.48	1.51	1.49	14.53
Fully Adjusted							
4	Current	-0.69	-6.91	-0.83	-1.69	0.81	59.53
	Past	-1.09	1.51	2.88	-0.51	0.06	
5	Past	-0.01	-3.71	-5.54	0.18	0.11	56.77
Cell Frequencies							
4	Current	38	4	4	12	2	125
	Past	93	19	8	22	10	
5	Past	39	7	5	23	4	57

*p < 0.05.

**p < 0.01.

***p < 0.01.

^a Age adjustment includes second order term (age²) to account for nonlinearity of relationship. See Vol. II, Table VI-1 for full covariate list. Values are differences from the control group means.

^b Child must have a backward score in order to have a combined score, unless forward score < 3, in which case the backward score was set to 0.

CHAPTER VII APPENDIXES

VII-A DATA DESCRIPTION

This appendix describes the data that are available for analysis, the sample sizes, and the process used to edit the data for analysis.

1. Sample Selection

Women were selected for this study at the time they entered prenatal care in non-WIC clinics and at the initial time of certification at the WIC sites. The Time 1 Interview was conducted at the clinic or WIC site in most cases. In some cases, part of the woman's interview was conducted at her home later on the same day. Time 1 Interviews were completed for 5,205 WIC women and 1,358 non-WIC women. Time 2 Interview data were available for 3,967 of the WIC women and 1,043 of the non-WIC women. Women were not included in the Time 2 Interview for several reasons. Either they were lost to follow-up, were greater than 32 weeks pregnant at the time of their initial interview and were therefore not slated to receive the Time 2 Interview, or their pregnancy had terminated due to miscarriage or early delivery prior to the Time 2 Interview date.

The non-WIC sample was further reduced because of non-WIC women entering the WIC program. During the Time 2 Interview, non-WIC women were asked whether or not they had applied for WIC, whether they were found to be eligible if they had applied, and whether or not they had received any benefits. A total of 279 women replied that they had applied and were eligible. Some of these women had not received any benefits and were on the waiting list for WIC benefits. A total of 262 non-WIC women were identified as having received some WIC benefits by the date of the Time 2 Interviews. These women were classified as NOW-WIC.

In addition, 12 WIC women indicated that they were either not eligible for WIC or had not received any benefits. Available voucher data were consulted for these women, and it was found that six of these were reported by the WIC sites as never receiving any benefits. These six women were classified as NOT-WIC. Voucher data were not available for two other women who stated that they were ineligible for WIC but had received one month of benefits. Since we could neither confirm nor deny the women's statements that they had received benefits, these women remained in the WIC group. The other four women had received numerous food vouchers and remained in the WIC group.

The net result of these changes is that 4,223 women were available for both Time 1 and Time 2 Interviews who received some WIC benefits prior to Time 2. The number of women without any WIC benefits was 787.

2. Food Expenditure Recall Data

A series of questions on food expenditures was included in both the Time 1 and Time 2 women's Interviews, based on questions that have been developed and used in previous food expenditure surveys such as the U.S. Quarterly Consumer Expenditure Surveys and those conducted by Statistics

Canada. The questions were constructed to assist the respondent in recalling the types of food expenditures and include:

Time 1

During the past month, what was the total amount of your family unit's purchase at the grocery store or supermarket? Include purchases made with Food Stamps, WIC vouchers, or benefits from other food programs.

About how much of this amount was for non-food items, such as paper products, detergents, home cleaning supplies, pet foods, and alcoholic beverages?

Is this about what you usually spend per month at the grocery store or supermarket?

What would you say is a more typical figure?

During the past month have you (or any members of your family unit) purchased any food or nonalcoholic beverages from places other than grocery stores, such as convenience stores, dairy stores, specialty stores, bakeries, vegetable stands, farmers' markets, or home delivery? Include any large purchases made for freezing or canning.

What was your family unit's total monthly expense at these places excluding purchases of non-food items and alcoholic beverages?

During the past month have you (or any members of your family unit) bought any meals or snacks in restaurants, cafeterias, cafés, drive-ins, vending machines, or other such places?

What was the total amount spent for these purchases during the past month, not counting beer, wines, and other alcoholic beverages?

During the past month, have you (or any members of your family unit) made any large or bulk purchases of meat, fruit, or vegetables for home freezing or canning?

What was the total cost, including charges for cutting, wrapping, and freezing?

Have you eaten any of that food yet?

About how much of that food did you eat during the past month? Would you say half of it (50%), a third (33%), one-fourth (25%), 10 percent, or what?

(Other than last month) during the last six months, have you (or any members of your family unit) made any large or bulk purchases of meat, fruit, or vegetables for home freezing or canning?

What was the total cost of that food, including charges for cutting, wrapping, and freezing?

Have you eaten any of that food yet?

About how much of that food did you eat during the past month? Would you say half of it (50%), a third (33%), one-fourth (25%), 10 percent, or what?

During the past month, have you (or any members of your family unit) eaten any fresh, frozen, or canned food that you raised yourself or that was raised by a friend or relative?

About how much would this food have cost if you bought it in a store?

During the past month have (you or) any children in your family unit purchased or received free, any meals at school, in a daycare, Head Start, kindergarden, or other preschool programs?

What are the first names of the children who purchased, or received free, meals at school or in a preschool program?

On average, about how many meals per week did (NAME) purchase or receive at school or preschool (during the past month)?

What was the usual weekly expense for meals (NAME) purchased or received at school or preschool? 00 was entered for FREE MEALS.

The above questions were directed at identifying the total expenditures for food and at obtaining information needed for adjusting expenditures for changes in purchasing patterns. For example, since the Time 1 Interview spanned the late winter and spring of 1983, children would have been in school. If these children received free school lunches, those women whose Time 2 Interview occurred during the summer months could be expected to have increased expenditures because the children may have been home from school.

In addition, food expenditures during a certain month could be increased or decreased if some family members were away from home, if guests were present, or if free food was received. Thus, the following questions were asked:

Finally, during the past month, have you (or any members of your family unit) received any free food, beverages, or meals through public or private welfare agencies, including religious organizations? (DO NOT INCLUDE FREE MEALS IN SCHOOL OR PRESCHOOL PROGRAMS.)

About how much would that food have cost if you had paid for it?

Were you (or any members of your family unit) away from home overnight or longer, for one day or more, during the past month?

Which person(s)?

How many nights in all was (NAME) away during the past month?

Did any visitors or guests stay with you overnight or longer (for one day or more) during the past month, not counting people who usually live here?

How many such persons?

How many nights did they stay? (THIS WAS DETERMINED SEPARATELY FOR EACH PERSON.)

Expenditures may not only be influenced by the pregnant woman's WIC package. Receipt of Food Stamps can cause expenditures to increase. In addition, other members of the family unit also could be receiving WIC packages. Thus, a series of questions was asked to determine the number and basic types of WIC packages that the family unit received:

During the past month, have any members of your family unit, not counting yourself, received any benefits or services from the WIC Program--the Special Food Program for Women, Infants, and Children?

During the past month, how many women in your family unit, not counting yourself, received benefits or services from the WIC program?

And how many infants 3 months old or younger received such benefits or services?

How many infants 4 months to 1 year old (received such benefits or services)?

How many children between 1 and 5 years old (received such benefits or services)?

A direct question on Food Stamps was also included:

Now I would like to talk to you about assistance you (or any members of your family unit) may have received from various food programs during the past month. First, during the past month, have you (or any members of your family unit) received any Federal Food Stamps?

What was the value of all Food Stamps received last month?

Identical food expenditure questions were asked of respondents at the second interview. In addition, respondents were asked directly whether or not their expenditures had increased or decreased since the previous interview:

During the past month, would you say that (you/your family unit) spent more, less or about the same on food and nonalcoholic beverages than during the month before your last interview on (REF. DATE)?

On average, about how much more per month are you spending now on food and nonalcoholic beverages than you were in the month before your last interview?

What are the main reasons you are spending more now than before your last interview?

On average, about how much less per month are you spending now on food and nonalcoholic beverages than before your last interview?

What are the main reasons you are spending less now than before your last interview?

The family structure obviously is important in determining the amount of money that the family spends on food. A detailed series of questions was asked in order to construct a household roster. These questions were used to identify children under 5 years of age who were eligible for the Children's Cross Sectional Study, as well as for determining family structure for the analysis of food expenditures. Members of the household were identified by sex and age (or birthdate). In addition, the woman was specifically asked to identify those persons residing in the household that did and did not share food expenses. Members of the household that shared food expenses were given a family unit status code of 1.

During the Time 2 Interview, the initial household roster was corrected. The name of each person was read to the respondent, and the woman was specifically asked whether or not the person was still living in the household. The woman was then asked to identify any new members of the household with specific mention being made of the need to include newborn babies since people often fail to report very young babies as household members. The age, sex, and family unit membership were determined for each additional person.

Total family income is another key variable in the analysis of food expenditures. At Time 1 a series of questions was asked in order to determine the total family income from various sources. Women were asked to report the income from wages; Supplemental Security Income, Aid to Families with Dependent Children; other public assistance or welfare programs; Unemployment Insurance; Worker's Compensation; Social Security or Railroad Retirement benefits; money from a pension, retirement fund, or annuity; child support, alimony, and other regular case payments; interest payments, dividends, or rental payments; and miscellaneous settlements such as money from insurance settlements, education loans, or gifts. For each possible source of income, the respondent was first asked whether any member of the family received income from the source and was then asked for the amount of the payments. Finally, the respondent was presented with a card showing various income groups and asked to report the one that came closest to the family's total 1982 income.

The income questions were only asked at the Time 1. While it is recognized that income could have changed from Time 1 to Time 2, the time period between Time 1 and Time 2 was short, and most families would not have had a change in income. Thus, in order to reduce respondent burden, i.e., reduce the length of interview, the income questions were not repeated at Time 2. A few women did report that they were spending more on food at Time 2 because their husbands were not working.

Additional demographic information is available for use in modeling food expenditures. This includes the race of the woman, her education, her marital status, whether or not she ever worked, her occupation, current activity (i.e., working, student, or housewife), housing characteristics, and language spoken in the home.

3. Food Expenditure Diary Data

A subsample of both the WIC and non-WIC women was given a diary in which to record one week's food expenditures. Each day's diary was divided into two parts. In part one, the respondent was provided with lines for recording foods and non-alcoholic beverages bought at grocery stores, supermarkets, convenience stores, bakeries, delicatessens, markets, and other food stores. The respondent listed the type of food purchased, indicated whether it was fresh, frozen, bottled or canned, and wrote down the price of the food. Quantities were not obtained in order to reduce the burden of reporting for the respondent.

In part two, the respondent was provided with space to record all meals, snacks, and beverages that were bought from sources away from home, such as restaurants, vending machines, snack bars, or school or company cafeterias, etc. The total cost of the meal or beverage was recorded. The respondent also was asked to indicate whether alcoholic beverages were included in the total cost and, if so, the cost of the alcoholic beverages.

The respondent, if part of the randomly selected subsample, was given the Diary at the end of the Time 2 Interview and instructed in its use. At the end of the week, an interviewer visited the respondent's home, inspected the Diary, and attempted to obtain by recall any purchases that were omitted from the Diary. When the questionnaires were returned to RTI, the food items were coded using a 3-digit coding system. Separate codes for WIC eligible infant formulas and WIC eligible cereals were assigned when possible. This was done so that special tabulations of WIC foods could be made. As far as possible, each food type was coded separately. However, combination codes were established in case the respondent had made an entry such as "eggs and fruits."

VII-B. RECALL DATA AND DIARY DATA

Recall Data (All figures are monthly)

<u>Page</u>	<u>Table</u>
VII-8	List of Variables
VII-9	Model for Food Expenditures
VII-10	Model for Grocery Expenditures
VII-11	Expenditures on Meals Away from Home
VII-12	Change Score Model for Food Expenditures
VII-13	Change Score Model for Grocery Expenditures
VII-14	Change Score Model for Meals Away from Home
VII-15	Time 1 Food Expenditures with WIC Status Variable

Diary Data (All figures are weekly)

VII-16	Expenditures on WIC-type Foods
VII-17	Expenditures on Meat
VII-18	Expenditures on Condiments
VII-19	Expenditures on Cereals and Breads
VII-20	Expenditures on Fresh Foods
VII-21	Expenditures on Frozen Foods
VII-22	Expenditures on Vegetables
VII-23	Expenditures on Groceries
VII-24	Expenditures on Meals Away from Home
VII-25	Expenditures on All Foods
VII-26	Expenditures on Dairy Products
VII-27	Expenditures on Beverages
VII-28	Expenditures on Other Foods
VII-29	Average Values for Diary Data on WIC Families
VII-30	Average Values for Diary Data on Non-WIC Families
VII-31	Correlation Coefficients between Diary and Recall Data

List of Variables

<u>Time 1</u>		<u>Time 2</u>	
TTLINC	Income	ONE.FE1	Predicted T1 Food Expenditures
A0_5	No. of Children 0-5	AAO_5	No. of Children 0-5
A5_10	No. of Children 5-10	PERSONS	Total Number of Adults Other Than WIC Woman
M11_22	No. of Males 11-22	STATUS	WIC vs. Non-WIC
M23_99	No. of Males 23-99	IVP	Imputed Voucher Presence
F11_22	No. of Females 11-22	ST_AO_5	WIC * No. of Children
F23_99	No. of Females 23-99	ST_PERS	WIC * No. of Adults
MLHEAD1	Male Head Present	FREELN2	No. of Free Lunches
EG1	Race: White	NGU2	Net Guest Person Months
EG2	Race: Black	STAMP2	Value of Food Stamps Received
EG3	Race: Hispanic	OTHWOM2	Number of Other Women on WIC
ED1	Education: 1-6 Years	INF21_3	Number of Infants 1-3 Months on WIC
ED2	Education: 7-8 Years	INF24_12	Number of Infants 4-12 Months on WIC
ED3	Education: 9-11 Years	CHLD21_5	Number of Children 1-5 Years on WIC
ED4	Education: 12 Years	FE2	Total Food Expenditure
SMSA	SMSA/Non-SMSA	FOODGR2	Expenditures at Grocery Store
FREELN1	No. of Free Lunches		
NGU1	Net Guest Person Months		
STAMP1	Value of Food Stamps Received		
OTHWOM1	Number of Other Women on WIC		
INF11_3	Number of Infants 1-3 Months on WIC		
INF14_12	Number of Infants 4-12 Months on WIC		
CHLD11_5	Number of Children 1-5 Years on WIC		
FE1	Total Food Expenditures (T1)		
FOODGR1	Expenditures at Grocery Store		

MODEL: TH= SSE
D.F. UFE
DIP VAR: FE1 MSE
FOOD EXPENDITURES, TIME 1

F RATIO 121.06
PROB>F 0.0001
R-SQUARE 0.3464

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB>T	VARIABLE LABEL
INTERCEPT	1	85.422033	11.395548	7.8471	0.0001	TOTAL INCOME
THR.FE1	1	0.061854	0.003583351	15.5531	0.0001	
AGE_5	1	18.274664	2.232685	7.9702	0.0001	
AGE_10	1	35.087059	2.391869	14.6697	0.0001	
AGE_15	1	38.004243	2.425895	15.6661	0.0001	
AGE_20	1	42.910327	3.405386	12.6032	0.0001	
AGE_25	1	33.863360	2.650495	12.7764	0.0001	
AGE_30	1	24.718242	3.083305	8.0171	0.0001	
AGE_35	1	-8.364308	4.351389	-1.4625	0.1437	MALE HEAD PRESENT, TIME 1
AGE_40	1	0.265492	10.677341	0.0250	0.9801	WHITE
AGE_45	1	-16.186677	10.885753	-1.4870	0.1371	BLACK
AGE_50	1	-17.929107	11.069710	-1.6197	0.1054	HISPANIC
AGE_55	1	15.045092	9.102463	1.6529	0.0984	1-6 YEARS EDUC
AGE_60	1	-2.219306	6.874166	-0.3229	0.7466	7-8 YEARS EDUC
AGE_65	1	-10.183336	4.965076	-2.0493	0.0405	9-11 YEARS EDUC
AGE_70	1	-7.230526	4.946071	-1.4613	0.1440	12 YEARS EDUC
AGE_75	1	-0.871025	0.277031	-3.1441	0.0017	NET GUESTS, TIME 1
AGE_80	1	16.757041	4.154424	4.0335	0.0001	
AGE_85	1	0.169976	0.019791	8.5431	0.0001	
AGE_90	1	9.114869	11.453138	0.7958	0.4262	
AGE_95	1	-15.906328	15.780482	-1.0064	0.3143	
AGE_100	1	-10.857436	6.713386	-1.6173	0.1059	
AGE_105	1	12.782982	4.008163	3.1892	0.0014	

MODEL: FOU SSE
D.F. UFE
DIP VAR: FE2 MSE
FOOD EXPENDITURES, TIME 2

F RATIO 186.99
APPROX PROB>F 0.0001
R-SQUARE 0.3101

SECOND STAGE STATISTICS

VARIABLE	IF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	APPROX PROB>T	VARIABLE LABEL
INTERCEPT	1	136.061176	7.168405	18.9635	0.0001	FOOD EXPENDITURES, TIME 1
THR.FE1	1	0.154373	0.025954	5.2602	0.0001	
AGE_5	1	27.790064	5.357216	5.1876	0.0001	
AGE_10	1	41.151475	2.638608	15.6585	0.0001	NO. PERSONS EXCL. 0-5 AND MOTHER
AGE_15	1	-9.593146	5.733442	-1.6587	0.0972	WIC/NON WIC
AGE_20	1	-6.828748	5.828569	-1.1718	0.2413	WIC NON/WIC BY PERSONS 0-5
AGE_25	1	-10.375256	2.620749	-3.9589	0.0001	WIC NON/WIC BY OTHER PERSONS
AGE_30	1	-5.021809	0.260983	-0.0756	0.9396	
AGE_35	1	16.624566	4.326505	3.8429	0.0001	NET GUESTS, TIME 2
AGE_40	1	0.104468	0.017946	5.8531	0.0001	
AGE_45	1	7.123213	5.758247	1.2323	0.2157	

MODEL: ONF
 DEP VAR: FOODGR1

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	F RATIO	PROB>F	R-SQUARE
INTERCEPT	1	79.932063	5.064523	6.7955	0.0001	
TILING	1	0.037539	0.002815005	13.3163	0.0001	
AGE	1	16.249470	1.622665	10.0140	0.0001	
AGE_10	1	27.941026	1.692716	16.5066	0.0001	
AGE_20	1	29.620729	1.716796	17.3700	0.0001	
AGE_30	1	33.515743	2.409582	13.9083	0.0001	
AGE_40	1	24.859250	1.875750	13.2482	0.0001	
AGE_50	1	18.029354	2.192045	8.2626	0.0001	
AGE_60	1	-1.372312	3.075464	-0.4456	0.6559	
AGE_70	1	-2.253531	7.556321	-0.2953	0.7655	
AGE_80	1	-18.086146	7.703841	-2.3477	0.0189	
AGE_90	1	-7.344187	7.835599	-0.9375	0.3486	
AGE_100	1	27.494111	6.441764	4.2681	0.0001	
AGE_110	1	2.684598	4.864783	0.5518	0.5811	
AGE_120	1	-2.526600	3.516599	-0.8323	0.4053	
AGE_130	1	-2.035511	3.501734	-0.5825	0.5602	
AGE_140	1	-0.349265	0.196054	-1.7815	0.0749	
AGE_150	1	13.315390	2.940073	4.5285	0.0001	
AGE_160	1	0.174357	6.014006	12.4487	0.0001	
AGE_170	1	7.910060	8.105349	0.9636	0.3353	
AGE_180	1	-5.642566	13.998585	-0.4031	0.6869	
AGE_190	1	-4.018109	4.751044	-0.8457	0.3977	
AGE_200	1	3.235696	2.636564	2.5045	0.0037	

VII-10

MODEL: 140
 DEP VAR: FOODGR2

SECOND STAGE STATISTICS

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T FATIO	APPROX PROB>F
INTERCEPT	1	109.354628	5.154941	21.2136	0.0001
AGE.FOODGR1	1	0.121462	0.027970	4.3425	0.0001
AGE_10	1	24.915996	3.850341	6.4711	0.0001
AGE_20	1	28.530328	1.869539	15.0991	0.0001
AGE_30	1	-3.903081	4.147174	-0.9426	0.3459
AGE_40	1	-7.654727	4.178454	-1.8279	0.0715
AGE_50	1	-3.082438	1.878519	-1.6400	0.1011
AGE_60	1	-0.081106	0.297135	-0.3916	0.6954
AGE_70	1	17.457761	3.193037	5.4660	0.0001
AGE_80	1	0.122358	0.012653	9.5197	0.0001
AGE_90	1	1.556525	4.125600	0.3773	0.7060
AGE_100	1	-5.904052	5.842221	-1.0067	0.3145
AGE_110	1	7.755153	2.644577	2.9324	0.0034

NO. PERSONS EXCL. 0-5 AND MOTHER
 WIC/NON WIC
 WIC NON/WIC BY PERSONS 0-5
 WIC NON/WIC BY OTHER PERSONS
 NET GUESTS, TIME 2

1982
CALCULATED

7.755.53

WIC / NOV WIC

MODEL: SEV
DLP VAR: MEAL1

F RATIO 17.96
PROB>F 0.0001
R-SQUARE 0.0735

3607384
4981
724.224870

SSE
DFF
MSE

VARIABLE
LABEL

PROB>F

T RATIO

STANDARD
ERROR

PARAMETER
ESTIMATE

DF

TOTAL INCOME

0.0034
0.0001
0.0004
0.7559
0.0260
0.1376
0.0156
0.0313
0.4923
0.5921
0.6832
0.4604
0.0007
0.0014
0.0092
0.0046
0.1310
0.0287
0.0010
0.4453
0.6136
0.3533
0.8252

2.9256
12.1565
-1.6936
-0.3110
2.2263
1.4849
2.4192
2.1539
-0.6868
0.5358
0.1469
-0.7363
-3.3990
-3.2004
-3.7569
-1.6720
-1.5103
-2.1684
-3.2844
-0.7633
0.4964
-0.8537
-0.2209

3.017121
0.001054644
0.607072
0.633279
0.642286
0.901621
0.701754
0.616345
1.152087
2.826965
2.82157
2.930851
2.409397
1.820016
1.315628
1.310067
0.073347
1.059538
0.05239942
3.032369
5.237143
1.777458
1.061214

8.838914
0.512863
-1.024122
-0.196945
1.429456
1.338797
1.657681
1.756299
-0.791226
1.514797
0.423450
-2.163709
-8.191574
-5.824600
-4.944163
-2.190409
-0.119780
-2.407136
-0.017210
-2.314753
2.597665
-1.517354
-0.234398

MALE HEAD PRESENT, TIME 1

WHITE

BLACK

HISPANIC

1-6 YEARS EDUC

7-8 YEARS EDUC

9-11 YEARS EDUC

12 YEARS EDUC

NET GUESTS, TIME 1

VARIABLE
LABEL

APPROX
PROB>F

T RATIO

STANDARD
ERROR

PARAMETER
ESTIMATE

DF

NO. PERSONS EXCL. 0-5 AND MOTHER

WIC/NON WIC

WIC NON/WIC BY PERSONS 0-5

WIC NON/WIC BY OTHER PERSONS

NET GUESTS, TIME 2

MODEL: WIC

DLP VAR: MEAL2

3250046
4951
651.181349
2864088

SSE
DFF
MSE
ODJ

F RATIO 30.68
APPROX PR>F 0.0001
R-SQUARE 0.0667

SECOND STAGE STATISTICS

VARIABLE
INTERCEPT
SEV.MEAL1
AGE_5
PERSONS
STATUS
STAGE_5
ST_PERS
FPEELR2
WCU2
STAGE2
OTHWON2
INF2
CHLD01_5

1
1
1
1
1
1
1
1
1
1
1
1
1
1

11.711502
0.517692
-1.181635
2.905524
-5.155941
1.055134
-1.865279
0.042351
-1.865953
-0.025184
1.274988
0.257612
-0.041038

1.594542
0.056291
1.307663
0.613433
1.431797
1.435207
0.647345
0.072132
1.067762
0.004787454
1.420906
2.026682
0.506199

7.3450
9.1967
-0.5036
4.7381
-3.6038
0.7609
-2.8814
0.5871
-1.7629
-6.0956
0.5001
0.1763
-0.0461

0.0001
0.0001
0.3662
0.0001
0.0003
0.4467
0.0040
0.5571
0.0780
0.0001
0.3681
0.6601
0.9633

MODEL: OVF 151.80
 DEP VAR: FOODGR1 0.0001
 MSE 0.4014

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T	VARIABLE LABEL
INTERCEPT	1	79.932063	5.064523	15.7959	0.0001	TOTAL INCOME
FOODGR1	1	0.037539	0.002819035	13.3163	0.0001	
AGE	1	16.249470	1.622665	10.0140	0.0001	
AGE_1	1	27.941026	1.692716	16.5066	0.0001	
AGE_2	1	29.620729	1.716796	17.3703	0.0001	
AGE_3	1	33.516749	2.405982	13.9083	0.0001	
AGE_4	1	24.859250	1.875750	13.2482	0.0001	
AGE_5	1	18.029354	2.192045	8.2626	0.0001	
AGE_6	1	-1.372312	3.079464	-0.4456	0.6559	
AGE_7	1	-2.253631	7.556321	-0.2963	0.7655	
AGE_8	1	-18.086146	7.703841	-2.3477	0.0189	
AGE_9	1	-7.344187	7.833599	-0.9375	0.3486	
AGE_10	1	27.494111	6.441764	4.2681	0.0001	
AGE_11	1	2.684598	4.864783	0.5518	0.5811	
AGE_12	1	-2.526600	3.516599	-0.8323	0.4053	
AGE_13	1	-2.039311	3.501734	-0.5825	0.5602	
AGE_14	1	-0.349265	0.196054	-1.7615	0.0749	
AGE_15	1	13.315390	2.940073	4.5289	0.0001	
AGE_16	1	0.174357	6.014006	12.4487	0.0001	
AGE_17	1	7.610660	8.105349	0.9636	0.3353	
AGE_18	1	-5.642566	13.998585	-0.4031	0.6869	
AGE_19	1	-4.016109	4.751044	-0.8457	0.3977	
AGE_20	1	8.236696	2.636564	2.5045	0.0037	

VII-10

MODEL: 140 234.96
 DEP VAR: FOODGR2 0.0001
 MSE 0.3610

SECOND STAGE STATISTICS

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	APPROX PROB> T	VARIABLE LABEL
INTERCEPT	1	109.354628	5.164941	21.2136	0.0001	
AGE.FOODGR1	1	0.121462	0.027970	4.3425	0.0001	
AGE_1	1	24.915996	3.850341	6.4711	0.0001	
AGE_2	1	24.539328	1.865539	15.0991	0.0001	
AGE_3	1	-3.903081	4.147174	-0.9426	0.3459	
AGE_4	1	-7.054727	4.179494	-1.6879	0.0715	
AGE_5	1	-3.082438	1.878519	-1.6400	0.1011	
AGE_6	1	-0.081106	0.207135	-0.3916	0.6954	
AGE_7	1	17.457761	3.193037	5.4666	0.0001	
AGE_8	1	0.122356	0.912653	0.1347	0.8961	
AGE_9	1	1.556525	4.125603	0.3773	0.7060	
AGE_10	1	-8.904052	5.842221	-1.4967	0.1345	
AGE_11	1	7.755153	2.644577	2.9324	0.0034	

NO. PERSONS EXCL. 0-5 AND MOTHER
 WIC/HON WIC
 WIC NON/WIC BY PERSONS 0-5
 WIC NON/WIC BY OTHER PERSONS
 NET GUESTS, TIME 2

MODEL: SEV
DEP VAR: MEAL1

F RATIO 17.96
APPROX PROB>F 0.0001
R-SQUARE 0.0735

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	APPROX PROB>F	VARIABLE LABEL
INTERCEPT	1	0.038914	3.017121	2.9296	0.0334	TOTAL INCOME
INCOME	1	0.012863	0.001054644	12.1965	0.0001	
AGE_5	1	-1.02122	0.607072	-1.6536	0.0504	
AGE_10	1	-0.156545	0.633279	-0.3110	0.7559	
AGE_15	1	1.429556	0.642286	2.2263	0.0260	
AGE_20	1	1.338797	0.901621	1.4849	0.1376	
AGE_25	1	1.697681	0.701754	2.4192	0.0156	
AGE_30	1	1.758299	0.816345	2.1539	0.0313	
AGE_35	1	-0.791226	1.152087	-0.6866	0.4923	
AGE_40	1	1.514797	2.826365	0.5358	0.5921	
AGE_45	1	0.423450	2.82157	0.1469	0.8832	
AGE_50	1	-2.163709	2.930851	-0.7363	0.4604	
AGE_55	1	-8.191574	2.409997	-3.3990	0.0007	
AGE_60	1	-5.824600	1.820016	-3.2004	0.0014	
AGE_65	1	-4.944163	1.315628	-3.7569	0.0002	
AGE_70	1	-2.192409	1.310067	-1.6720	0.0546	
AGE_75	1	-0.119780	0.073347	-1.5103	0.1310	
AGE_80	1	-2.407136	1.059936	-2.2164	0.0287	
AGE_85	1	-0.017210	0.005239942	-3.2844	0.0010	
AGE_90	1	-2.314753	3.032369	-0.7633	0.4453	
AGE_95	1	2.595665	5.237143	0.4964	0.6136	
AGE_100	1	-1.517354	1.777458	-0.8537	0.3533	
AGE_105	1	-0.234398	1.061214	-0.2209	0.8252	

MALE HEAD PRESENT, TIME 1

WHITE

BLACK

HISPANIC

1-6 YEARS EDUC

7-8 YEARS EDUC

9-11 YEARS EDUC

12 YEARS EDUC

NET GUESTS, TIME 1

MODEL: WIC
DEP VAR: MEAL2

F RATIO 30.68
APPROX PROB>F 0.0001
R-SQUARE 0.0667

SECOND STAGE STATISTICS

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	APPROX PROB>F	VARIABLE LABEL
INTERCEPT	1	11.711502	1.594542	7.3450	0.0001	
SEV.MEAL1	1	0.517692	0.056291	9.1567	0.0001	
AGE_5	1	-1.181635	1.307663	-0.9036	0.3662	
PERSONS	1	2.905524	0.613433	4.7381	0.0001	
STATUS	1	-5.159941	1.431797	-3.6034	0.0003	
STATUS_5	1	1.055134	1.435207	0.7609	0.4467	
STATUS_10	1	-1.865279	0.647345	-2.8814	0.0040	
STATUS_15	1	0.042351	0.072132	0.5871	0.5571	
STATUS_20	1	-1.865259	1.065762	-1.7629	0.0780	
STATUS_25	1	-0.025184	0.004787454	-6.0956	0.0001	
STATUS_30	1	1.278908	1.420966	0.9001	0.3681	
STATUS_35	1	0.357612	2.026682	0.1763	0.8601	
STATUS_40	1	-0.041038	0.506199	-0.0461	0.9633	

NO. PERSONS EXCL. 0-5 AND MOTHER

WIC/NON WIC

WIC NON/WIC BY PERSONS 0-5

WIC NON/WIC BY OTHER PERSONS

NET GUESTS, TIME 2

"MODEL: MODEL01		72691373	F RATIO	41.34	VARIABLE LABEL
DEP VAR: OFE		4965	PROB>F	0.0001	
		14522.02	R-SQUARE	0.1315	
VARIABLE	DEP	PARAMETER ESTIMATE	T RATIO	PROB> T	
INTERCEPT	1	12.671247	6.9525	0.0000	
PERSON	1	41.399744	22.5565	0.0000	
AGE	1	12.094205	3.0059	0.0027	
AGE	1	15.337711	4.1667	0.0001	
STATUS	1	5.115616	4.7501	0.0001	
OFFICER	1	-0.204296	-0.6562	0.4863	
JOINTEN	1	3.225316	0.5007	0.6166	
ETHNIC	1	-0.662517	-0.1596	0.8732	
INFLU	1	5.012727	5.9865	0.0000	
AGE	1	-2.672262	-0.2103	0.8334	
AGE	1	0.862079	0.0685	0.9454	
AGE	1	-5.373242	-0.4643	0.6242	
AGE	1	-11.333112	-1.0482	0.2946	
AGE	1	13.281466	1.6424	0.0993	
AGE	1	3.837562	0.6596	0.5094	
AGE	1	1.355336	0.2324	0.8163	
STATUS	1	-0.851763	-0.1665	0.8677	
STATUS	1	1.927168	0.7766	0.4374	
STATUS	1	-0.941879	-0.7852	0.4324	

MODEL: MODEL02		SSE		F RATIO		55.93	
DEP VAR: CPGROC		DFF		PRCH>F		0.0001	
		MSE		R-SQUARE		0.1656	
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T	VARIABLE LABEL	
INTERCEPT	1	0.952994	4.387094	1.0109	0.2569		
DEPRCOK	1	31.282746	1.276294	24.5106	0.0001		
DEPRCOK	1	13.563788	4.417462	3.1610	0.0016		
DEPRCOK	1	14.311601	2.597342	5.5101	0.0001		
DEPRCOK	1	0.145258	0.017512	8.2966	0.0001		
DEPRCOK	1	0.307214	0.203975	1.5061	0.1321		
DEPRCOK	1	2.810422	4.404632	0.6268	0.5308		
DEPRCOK	1	3.353692	2.975504	1.1271	0.2598		
DEPRCOK	1	2.351708	4.662053	0.5044	0.6140		
DEPRCOK	1	-3.477328	8.834521	-0.3937	0.6938	WHITE	
DEPRCOK	1	0.119466	0.960543	0.0133	0.9854	BLACK	
DEPRCOK	1	-4.981058	5.151372	-0.9534	0.336	HISPANIC	
DEPRCOK	1	-10.518366	7.522410	-1.3983	0.1621	1-6 YEARS EDUC	
DEPRCOK	1	13.605771	5.603094	1.9285	0.0538	7-8 YEARS EDUC	
DEPRCOK	1	1.523455	4.045416	0.3766	0.7065	9-11 YEARS EDUC	
DEPRCOK	1	0.933112	4.068326	0.2294	0.8186	12 YEARS EDUC	
DEPRCOK	1	2.123400	3.556648	0.5987	0.5494	WIC/NON WIC	
DEPRCOK	1	1.656537	1.725618	0.9614	0.3364	WIC NON/WIC BY PERSONS 0-5	
DEPRCOK	1	0.239461	0.834216	0.2871	0.7741	WIC NON/WIC BY OTHER PERSONS	

MODEL:	MODEL03	SSE	5201185	F RATIO	2.91	
DEP VAR:	WMEAL	LPL	4985	PROB>F	0.0001	
		MSE	1059.415	R-SQUARE	0.0104	
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T	VARIABLE LABEL
INTERCEPT	1	-0.212238	3.638422	-0.0583	0.9535	
DEFCON	1	2.417077	9.494689	4.6661	0.0001	
D43_5	1	-0.953250	1.712201	-0.5602	0.5753	
DECH	1	-0.465517	1.006725	-0.4634	0.6431	
DETAHP	1	-0.020613	0.006767583	-3.0366	0.0024	
DEBELLO	1	0.091546	0.079060	1.1573	0.2470	
DOHSGM	1	-0.867714	1.738259	-0.5003	0.6169	
DEMLE	1	-0.389855	1.153300	-0.3372	0.7360	
DEMLHD	1	1.717974	1.807004	0.9507	0.3418	
EC1	1	-1.345568	3.424245	-0.3930	0.6944	WHITE
EG2	1	-2.415663	3.473091	-0.6967	0.4860	BLACK
EG3	1	0.327371	3.547056	0.0923	0.9265	HISPANIC
EG1	1	0.071028	2.915673	0.0244	0.9806	1-6 YEARS EDUC
EG2	1	3.231695	2.171750	1.4861	0.1368	7-8 YEARS EDUC
EG3	1	1.230795	1.567996	0.7849	0.4325	9-11 YEARS EDUC
EG4	1	0.726971	1.576874	0.4610	0.6448	12 YEARS EDUC
STATUS	1	1.730323	1.376628	1.2551	0.2095	WIC/NON WIC
ST_A0_5	1	-0.026335	0.668847	-0.0394	0.9686	WIC NON/WIC BY PERSONS 0-5
ST_PERS	1	-0.105674	0.323341	-0.3266	0.7438	WIC NON/WIC BY OTHER PERSONS

W. / NON WIC
RERUN OF JOB RUN AT 13:04 ON 8MAY

MODEL: MODEL01 SSE 51346420 F RATIO 116.51
DEP VAR: FE1 DFE 4980 PROB>F 0.0001
FOOD EXPENDITURES. TIME 1 MSE 10310.53 R-SQUARE 0.3498

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T	VARIABLE LABEL
INTERCEPT	1	100.627525	11.870345	8.4772	0.0001	
TTLINC	1	0.060614	0.00399577	15.1551	0.0001	TOTAL INCOME
A0_5	1	17.999276	2.292056	7.8529	0.0001	
A5_10	1	35.169462	2.389572	14.7179	0.0001	
N11_22	1	37.931912	2.423536	15.6515	0.0001	
M23_99	1	42.973049	3.401979	12.6318	0.0001	
F11_22	1	33.920030	2.647869	12.8103	0.0001	
F23_99	1	24.812512	3.080310	8.0552	0.0001	
MLHEAD1	1	-6.479750	4.347122	-1.4906	0.1361	MALE HEAD PRESENT. TIME 1
ED1	1	0.371134	10.666576	0.0348	0.9722	WHITE
ED2	1	-15.397576	10.877350	-1.4156	0.1570	BLACK
ED3	1	-13.176860	11.058752	-1.6437	0.1003	HISPANIC
ED1	1	17.417512	9.121078	1.9096	0.0562	1-6 YEARS EDUC
ED2	1	-1.447273	6.871054	-0.2106	0.8332	7-8 YEARS EDUC
ED3	1	-9.430542	4.969183	-1.8978	0.0578	9-11 YEARS EDUC
ED4	1	-7.102803	4.943201	-1.4377	0.1506	12 YEARS EDUC
FREELN1	1	-0.864959	0.276756	-3.1253	0.0013	NET GUESTS. TIME 1
NGU1	1	16.572122	4.150588	3.9927	0.0001	
STAMP1	1	0.171687	0.019787	8.6769	0.0001	
QTHWCH1	1	9.471063	11.442040	0.8277	0.4079	
INF11_3	1	-19.944890	19.760456	-1.0093	0.3129	
INF14_12	1	-9.174035	6.725593	-1.3640	0.1726	
CHLD11_5	1	14.205437	4.026797	3.5277	0.0004	
STATUS	1	-13.564907	4.071044	-3.3320	0.0009	WIC/NON WIC
--- TABJOB						
==> ex						

WIC / NON WIC
ONE STAGE REGRESSION ANALYSIS
WITH SP54 EXCLUDED
THREE FOOD GROUPS ADDED: MEVCOST, DAIRYCS1, AND OTHCOST
FULL SAMPLE

MODEL:	1.0	CSE	160066.9	F RATIO	10.37
OFF VAF: HRCOST		CPE	155.9	PROB>F	0.0001
		RSE	102.672794	R-SQUARE	0.1340
VARIABLE	OF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	9.343150	2.147354	3.8853	0.0001
W_FCI	1	0.000427854	0.010143	0.8305	0.4054
WTLINC	1	-0.000705451	0.002898514	-2.4336	0.0151
AD0_5	1	1.061847	0.645532	1.6445	0.1002
PEPSONS	1	1.123366	0.316730	3.5468	0.0004
NUMFAD2	1	-1.056619	0.635262	-2.5548	0.0107
EG1	1	0.898417	1.934474	0.4644	0.6424
EG2	1	-1.625579	1.983257	-0.9207	0.3574
EG3	1	0.353065	2.000543	0.1795	0.8573
EG1	1	2.257312	1.612960	1.2454	0.2132
EG2	1	1.335322	1.244883	1.2735	0.2330
EG3	1	-0.207147	0.842661	-0.2458	0.8059
EG4	1	-0.256571	0.835458	-0.3075	0.7585
STATUS	1	2.766128	0.792510	3.4886	0.0005
ST_AU_5	1	0.555466	0.800146	0.6942	0.4877
ST_PERS	1	0.374181	0.360111	1.0351	0.2989
FREELN2	1	0.023470	0.055901	0.5272	0.5981
STAMP2	1	-0.00769085	0.015990	-0.4804	0.6310
WCOL	1	0.302278	0.460339	0.6579	0.5107
OTHWCH2	1	0.975149	0.772007	1.2631	0.2067
INF21_3	1	15.705679	4.039752	3.9101	0.0001
INF24_12	1	0.865366	1.795548	0.4931	0.6220
CHLD21_5	1	2.350335	0.756974	3.0967	0.0020

VARIABLE
LABEL

TOTAL INCOME

NO. PERSONS EXCL. 0-5 AND MOTHER

WHITE

BLACK

HISPANIC

1-6 YEARS EDUC

7-8 YEARS EDUC

9-11 YEARS EDUC

12 YEARS EDUC

WIC/NON WIC

WIC NON/WIC BY PERSONS 0-5

WIC NON/WIC BY OTHER PERSONS

NET GUESTS, DIARY

WIC / NON WIC
ONE STAGE REGRESSION ANALYSIS
WITH SMSA EXCLUDED
THREE FOCI GROUPS ABOVE: PEVOCST, GAIKYCST, AND OIMCOST
FULL SAMPLE

MODEL:	THR	USE	4.00145.6	F RATIO	6.60
		FE	1559	PROB>F	0.0001
DEL VAR: MEATCOST		RSE	256.668278	R-SQUARE	0.1382
VARIABLE	B	PARAMETER	STANDARD	T RATIO	PROB>T
		ESTIMATE	ERROR		
INTERCEPT	1	16.234165	3.395174	4.9569	0.0001
WFE1	1	0.043574	0.016047	2.7154	0.0067
ITLINC	1	0.002792983	0.00458283	0.6094	0.5428
AD05	1	0.068127	1.020648	0.0674	0.9462
PERSONS	1	2.380930	0.500780	4.7542	0.0001
WLNCRD2	1	-1.955563	0.963461	-2.0312	0.0424
CG1	1	-7.616161	3.058590	-2.4901	0.0123
CG2	1	-3.123290	3.135721	-0.9960	0.3194
CG3	1	-5.560126	3.163051	-1.7578	0.0790
CG1	1	2.215097	2.866464	0.7728	0.4358
CG2	1	4.405888	1.968286	2.2791	0.0228
CG3	1	1.265242	1.332329	0.9497	0.3424
CG4	1	0.632250	1.320940	0.4766	0.6323
STATUS	1	-1.375612	1.253667	-1.0973	0.2727
ST_AD_5	1	0.732295	1.265108	0.5788	0.5628
ST_FEL2	1	-0.227557	0.569370	-0.4004	0.6869
FEEEL02	1	0.100164	0.088385	1.1333	0.2573
STAMP2	1	0.016532	0.025281	0.7489	0.4540
MOOD	1	0.830036	0.727840	1.1415	0.2538
OTHWOP2	1	1.042307	1.220618	0.8539	0.3933
INF21_3	1	-2.397920	0.387239	-1.3148	0.1858
INF24_12	1	-3.704575	2.838935	-1.3261	0.1859
CHILD21_5	1	0.826665	1.200012	0.6888	0.4910

TOTAL INCOME

NO. PERSONS EXCL. 0-5 AND MOTHER

WHITE

BLACK

HISPANIC

1-6 YEARS EDUC

7-8 YEARS EDUC

9-11 YEARS EDUC

12 YEARS EDUC

WIC/NON WIC

WIC NON/WIC BY PERSONS 0-5

WIC NON/WIC BY OTHER PERSONS

NET GUESTS, DIARY

WIC / NON WIC
ONE STAGE REGRESSION ANALYSIS
WITH ONSA EXCLUDED
THREE FOOD GROUPS ADDED: LEVCOST, DAIRYCS, AND OTHCOST
FULL SAMPLE

MODEL:	FOR	SS	SE	F RATIO	5.85
ONE VAR: CONDCOST		1559	1559	PROB>F	0.3001
		40.231893	40.231893	R-SQUARE	0.0762
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	4.743662	1.344191	3.5264	0.0004
AGE1	1	0.017238	0.026353330	2.8076	0.0051
ITLINC	1	0.000744681	0.001814379	0.4104	0.6816
AGE5	1	0.267814	0.404087	0.6623	0.5079
PERSONS	1	0.601086	0.198265	3.4352	0.0036
MLNE402	1	-0.617310	0.361446	-1.6183	0.1058
EG1	1	0.477561	1.213334	0.3944	0.6934
EG2	1	-1.173416	1.241471	-0.9500	0.3423
EG3	1	-1.872119	1.252291	-1.4957	0.1339
EL1	1	0.733119	1.134869	0.6466	0.5160
EL2	1	1.451556	0.775267	1.8627	0.0627
EL3	1	0.364865	0.527485	0.7297	0.4657
EL4	1	0.472724	0.522977	0.9034	0.3662
STATUS	1	-0.015335	0.496342	-0.0321	0.9744
ST_AGE5	1	-0.213131	0.500972	-0.4257	0.6704
ST_PERS	1	-0.042655	0.225421	-0.1866	0.8520
FEFLV2	1	0.117240	0.034993	3.3504	0.0008
STAMP2	1	-0.020470	0.010003	-2.0451	0.0410
THOD	1	0.542987	0.268161	1.8812	0.0601
OTHWCX2	1	0.312101	0.483258	0.6458	0.5165
INF21_1	1	-0.493102	2.528787	-0.1938	0.8453
INF24_12	1	0.995079	1.123970	0.8853	0.3761
CHLD21_5	1	0.991964	0.475100	2.0879	0.0370

VARIABLE LABEL

TOTAL INCOME

NO. PERSONS EXCL. 0-5 AND MOTHER

WHITE

BLACK

HISPANIC

1-6 YEARS EDUC

7-8 YEARS EDUC

9-11 YEARS EDUC

12 YEARS EDUC

WIC/NON WIC

WIC NON/WIC BY PERSONS 0-5

WIC NON/WIC BY OTHER PERSONS

NET GUESTS, DIARY

WIC / NON WIC
 ONE STAGE REGRESSION ANALYSIS
 WITH SMSF EXCLUDED
 THREE FOOD GROUPS ADDED: MEVCOST, LAIRYCSI, AND OTHCOST
 FULL SAMPLE

MODEL:	FIV	RSE	43541.44	F RATIO	14.63
		LFE	1559	PROB>F	0.0001
DEP VAR: MEVCOST		RSE	27.521884	R-SQUARE	0.1711
VARIABLE	OF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	1.302774	1.115964	7.9545	0.0001
J_FE1	1	0.00977221	0.005293525	1.8461	0.0651
TILFEC	1	-0.001472758	0.001511736	-0.3128	0.7545
ADDS	1	0.513463	0.336681	1.5425	0.1231
PERSONS	1	1.231192	0.165152	7.4951	0.0001
MLHEAD2	1	-1.597073	0.317810	-5.0251	0.0001
CB1	1	-2.622547	1.008936	-2.5993	0.0094
EG2	1	-2.166278	1.034379	-2.0943	0.0364
EG3	1	-1.773041	1.043394	-1.6993	0.0895
EG1	1	1.775248	0.945559	1.8806	0.0602
EG2	1	1.455257	0.649276	2.3030	0.0214
EG3	1	0.025756	0.439494	0.0586	0.9533
EG4	1	-0.221071	0.435738	-0.6450	0.5190
STATUS	1	-0.795273	0.413547	-1.9231	0.0547
ST_20_5	1	-0.330510	0.417321	-0.8135	0.4160
ST_PERS	1	-0.066755	0.187818	-0.3565	0.7215
FREEFMR	1	0.040032	0.029155	1.4060	0.1599
STAMP2	1	-0.00434109	0.008339565	-0.5205	0.6028
MGUC	1	0.625780	0.240092	3.4515	0.0006
OTHWOP2	1	0.717265	0.402645	1.7814	0.0750
IFF21_3	1	-0.343269	2.101556	-0.4477	0.6544
IFF24_12	1	-0.290242	0.936476	-0.3099	0.7567
CHLD21_5	1	1.112092	0.390847	2.8054	0.0050

TOTAL INCOME

NO. PERSONS EXCL. 0-5 AND MOTHER

WHITE

BLACK

HISPANIC

1-6 YEARS EDUC

7-9 YEARS EDUC

9-11 YEARS EDUC

12 YEARS EDUC

WIC/NON WIC

WIC NON/WIC BY PERSONS 0-5

WIC NON/WIC BY OTHER PERSONS

NET GUESTS, DIARY

VARIABLE LABEL

TOTAL INCOME

NO. PERSONS EXCL. 0-5 AND MOTHER

WHITE

BLACK

HISPANIC

1-6 YEARS EDUC

7-9 YEARS EDUC

9-11 YEARS EDUC

12 YEARS EDUC

WIC/NON WIC

WIC NON/WIC BY PERSONS 0-5

WIC NON/WIC BY OTHER PERSONS

NET GUESTS, DIARY

WIC / NEW WIC
ONE STAGE REGRESSION ANALYSIS
WITH SMSA EXCLUDED
THREE FOOD GROUPS ADJUSTED: FLEVOST, DAIRYCST, AND OTMCOST
FULL SAMPLE

MODEL:	SIX	SSR	486654.6	F RATIO	11.91
DEP VAR:	FLEVOST	SEE	1553	PRCB>F	0.0001
		RSE	312.163054	R-SQUARE	0.1439
VARIABLE	CF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	25.314078	2.744390	6.7607	0.0001
WFF1	1	0.062005	0.017698	3.5035	0.0005
ITLINC	1	-0.00221879	0.005054205	-0.4384	0.6612
AGE5	1	0.202758	1.125629	0.1801	0.8571
PERSONS	1	3.695212	0.552269	6.6507	0.0001
WHEE202	1	-2.746215	1.062559	-2.6241	0.0068
EB1	1	-8.090720	3.373187	-2.6974	0.0071
EG2	1	-4.709227	3.458251	-1.3617	0.1735
FG3	1	-4.665184	3.488393	-1.3211	0.1866
EB1	1	4.095725	3.161306	1.5803	0.1142
EP2	1	1.305738	2.170731	0.6396	0.5224
ED3	1	-0.751334	1.463367	-0.5107	0.6097
ED4	1	-1.565350	1.456608	-1.0745	0.2827
STATUS	1	-1.419483	1.382615	-1.0259	0.3051
ST_A0_5	1	0.526435	1.395233	0.3773	0.7060
ST_PLRS	1	-0.696723	0.627935	-1.1095	0.2674
FREELN2	1	0.144305	0.097475	1.4804	0.1390
STAMP2	1	-0.028703	0.027882	-1.0295	0.3034
NGUC	1	1.512173	0.802703	1.8639	0.0598
OTHW02	1	0.608567	1.346167	0.4524	0.6511
INF21_3	1	-12.327183	7.044210	-1.7560	0.0903
INF24_12	1	-4.686641	3.130939	-1.4969	0.1346
CHLD21_5	1	0.572661	1.323441	0.4327	0.6653

VARIABLE
LABEL

TOTAL INCOME

NO. PERSONS EXCL. 0-5 AND MOTHER

WHITE

BLACK

HISPANIC

1-6 YEARS EDUC

7-8 YEARS EDUC

9-11 YEARS EDUC

12 YEARS EDUC

WIC/NON WIC

WIC NON/WIC BY PERSONS 0-5

WIC NON/WIC BY OTHER PERSONS

NET GUESTS, DIARY

WIC / NON WIC
 ONE STAGE REGRESSION ANALYSIS
 WITH SMSA EXCLUDED
 THREE FOLLOUP GROUPS ADDED: LEVCOST, LAIRYCST, AND OTHCOST
 FULL SAMPLE

MODEL:	SEV	74912.94	F RATIO	2.67
	LFE	1559	PROB>F	0.0001
DLP VAR: PROZCOST	NSC	43.051919	R-SQUARE	0.9363
VARIABLE	IF	PARAMETER ESTIMATE	T RATIO	PROB> T
INTERCEPT	1	6.170.05	4.2007	0.0001
W_FEL	1	0.002682087	0.3863	0.6793
TILLING	1	0.002305113	1.1625	0.2452
ADRS	1	-0.146410	-0.4221	0.6730
PERSONS	1	0.251208	1.1621	0.2454
MLNEED2	1	-0.841043	-2.0175	0.0438
EG1	1	-2.718299	-2.0540	0.0401
EG2	1	-2.634772	-1.9419	0.0523
EG3	1	-3.833230	-2.8053	0.0051
EG4	1	0.119535	0.0964	0.9232
EG5	1	2.266506	2.6613	0.0079
EG6	1	0.113646	0.1971	0.8437
EG7	1	0.235779	0.4125	0.6800
STATUS	1	-0.261186	-0.4815	0.6302
STAS_5	1	0.141017	0.2585	0.7960
ST_FERS	1	0.272221	1.1050	0.2693
FREELW2	1	0.038183	0.9924	0.3182
STAMP2	1	-0.00183313	-0.1676	0.8669
NGUD	1	0.146531	0.4653	0.6416
OTHWCK2	1	0.574637	1.0880	0.2767
INF21_7	1	1.957235	0.7082	0.4789
INF24_12	1	1.056433	0.8600	0.3899
CHLD21_5	1	0.778406	1.4992	0.1340

TOTAL INCOME

NO. PERSONS EXCL. 0-5 AND MOTHER

WHITE

BLACK

HISPANIC

1-6 YEARS EDUC

7-8 YEARS EDUC

9-11 YEARS EDUC

12 YEARS EDUC

WIC/NON WIC

WIC NON/WIC BY PERSONS 0-5

WIC NON/WIC BY OTHER PERSONS

NET GUESTS, DIARY

WIC / NO: WIC
 ONE STAGE REGRESSION ANALYSIS
 WITH SMSA EXCLUDED
 THREE FOOT GROUPS ADDED: INDCOST, DAIRYCST, AND OTMCOST
 FULL SAMPLE

MODEL:	FIG	USE LFE	70955 1559	F RATIO PROB>F	9.94 0.0001
DEF VAR:	VEGICOST	USE	4.297625	R-SQUARE	0.1235
VARIABLE	EF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	0.763562	1.467952	0.5732	0.0001
W_FEL	1	0.922154	0.007932	3.1544	0.0016
W_FILIC	1	-0.090325	0.002006	-0.1628	0.8797
W_FEL	1	-0.023295	0.447304	-0.0521	0.9585
PERSONS	1	0.274135	0.219419	3.9834	0.0001
W_FEL	1	-1.167452	0.422242	-2.7649	0.0058
EG1	1	-2.617122	1.340442	-1.9524	0.0511
EG2	1	-1.665360	1.374245	-1.2118	0.2258
EG3	1	-0.111110	1.386223	-0.0607	0.9357
EG1	1	4.241367	1.256242	3.3762	0.0008
EG2	1	0.555663	0.862609	0.6565	0.5113
EG3	1	-2.412138	0.503899	-4.1311	0.0001
EG4	1	-1.862308	0.576909	-3.2273	0.0013
STATUS	1	0.535692	0.545426	0.9750	0.3297
ST_A0_5	1	-0.078020	0.554440	-0.1425	0.8967
ST_FIFS	1	-0.094126	0.243525	-0.3772	0.7061
FEEELTP	1	0.030114	0.038735	0.7774	0.4370
STAMP2	1	-0.030494	0.011080	-2.7523	0.0060
RIGUC	1	0.471261	0.318980	1.4774	0.1398
OTMCOST	1	0.416505	0.534942	0.7792	0.4360
INF21_1	1	2.457189	2.799240	0.8921	0.3725
INF24_12	1	0.350233	1.244178	0.2815	0.7784
CHLD21_5	1	0.305522	0.525911	0.5805	0.5614

VARIABLE
LABEL

TOTAL INCOME

NO. PERSONS EXCL. 0-5 AND MOTHER

WHITE

BLACK

HISPANIC

1-6 YEARS EDUC

7-8 YEARS EDUC

9-11 YEARS EDUC

12 YEARS EDUC

WIC/NON WIC

WIC NON/WIC BY PERSONS 0-5

WIC NON/WIC BY OTHER PERSONS

NET GUESTS, DIARY

WIC / AGY WIC
ONE STAGE REGRESSION ANALYSIS
WITH SMSA EXCLUDED
THREE FOOD GROUPS ADDED: LEVCOST, DAIRYCST, AND OTHCOST
FULL SAMPLE

MODEL:	GIN	SSE	1924455	F RATIO	13.35
		SFL	1553	PROB>F	0.0001
DEL VAR: (RECCOST		RSL	1234.416	R-SQUARE	0.1586
VARIABLE	CO	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB>T
INTERCEPT	1	52.037553	7.445721	6.9896	0.0001
W_F51	1	6.113345	0.035192	3.2207	0.0013
TITLE	1	-0.00420008	0.010050	-0.4279	0.6688
AAO_5	1	2.125482	2.231313	0.9514	0.3416
PERSONS	1	7.135009	1.094226	6.4655	0.0001
HLMTAGE2	1	-6.901447	2.112899	-3.2665	0.0011
EG1	1	-11.243164	6.707582	-1.6762	0.0939
EG2	1	-10.541535	6.876732	-1.5330	0.1255
EG3	1	-0.024253	6.936669	-1.3097	0.1905
EG4	1	14.157899	6.286245	2.2522	0.0244
EG5	1	11.762236	4.316566	2.7249	0.0065
EG6	1	3.047257	2.921837	0.0162	0.9871
EG7	1	-0.706041	2.896863	-0.2440	0.8072
STATUS	1	0.874085	2.745331	0.3182	0.7504
ST_A0_5	1	3.454464	2.774420	0.1652	0.8688
ST_PERS	1	-0.116492	1.246645	-0.0935	0.9257
EPALL42	1	0.364625	0.193830	1.8812	0.0601
STARR2	1	-0.041136	0.055443	-0.7420	0.4582
AGUD	1	3.486232	1.596176	2.1841	0.0291
OTHWOM2	1	3.881570	2.676853	1.4500	0.1472
INF21_3	1	12.621349	14.007412	0.9010	0.3677
INF24_12	1	3.623577	6.225673	0.5620	0.5606
CHLD21_5	1	6.963657	2.631663	2.3041	0.0213

VARIABLE LABEL

TOTAL INCOME

NO. PERSONS EXCL. 0-5 AND MOTHER

WHITE

BLACK

HISPANIC

1-6 YEARS EDUC

7-8 YEARS EDUC

9-11 YEARS EDUC

12 YEARS EDUC

WIC/NON WIC

WIC NON/WIC BY PERSONS 0-5

WIC NON/WIC BY OTHER PERSONS

KEY GUESTS, DIARY

WIC / NON WIC
ONE STAGE REGRESSION ANALYSIS
WITH SMSA EXCLUDED
THREE FOOD GROUPS ADDED: REVFCST, DAIFCST, AND OTHFCST
FULL SAMPLE

MODEL:	FEW	SE	SE	F RATIO	6.07
		1559		PROB>F	0.0001
DLP VAR: COSTOUT		163.144771		P-SQUARE	0.0788
VARIABLE	CF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB>T
INTERCEPT	1	3.957626	2.706835	3.6768	0.0002
W_FEL	1	0.007386534	0.012794	0.5773	0.5639
TTLINC	1	0.006573883	0.003653711	1.7993	0.0722
LAC_5	1	-1.073413	0.813723	-1.3196	0.1872
PERSONS	1	1.045470	0.339252	2.6186	0.0089
MLH1402	1	-0.235383	0.768130	-0.3073	0.7586
EB1	1	1.422102	2.438494	0.5832	0.5599
EB2	1	0.801653	2.439308	0.3207	0.7485
EB3	1	3.305186	2.521777	1.3107	0.1962
EB4	1	-2.734215	2.285320	-1.1964	0.2317
STATUS	1	-1.085816	1.569223	-0.6926	0.4887
STAC_5	1	1.085818	1.062213	1.0257	0.3052
ST_PERS	1	2.241093	1.053134	2.1280	0.0335
ST_PERS	1	-4.021710	0.999509	-4.0237	0.0001
ST_PERS	1	1.534616	1.008621	1.5215	0.1283
ST_PERS	1	0.232011	0.453936	0.5111	0.6093
ST_PERS	1	-0.080673	0.070466	-1.1477	0.2513
STAMP2	1	-0.025445	0.020155	-4.2392	0.0001
STAMP2	1	1.345571	0.580276	2.3206	0.0204
STAMP2	1	0.454468	0.973151	0.4670	0.6406
OTHNON2	1	4.033505	5.092295	0.7921	0.4284
INF21_3	1	-2.350676	2.263372	-1.0366	0.2992
INF24_12	1	0.347197	0.956723	0.3556	0.7222
CHLD21_5	1				

TOTAL INCOME

NO. PERSONS EXCL. 0-5 AND MOTHER

WHITE

BLACK

HISPANIC

1-6 YEARS EDUC

7-8 YEARS EDUC

9-11 YEARS EDUC

12 YEARS EDUC

WIC/NON WIC

WIC NON/WIC BY PERSONS 0-5

WIC NON/WIC BY OTHER PERSONS

NET GUESTS, DIARY

WIC / NON WIC
 ONE STAGE REGRESSION ANALYSIS
 WITH SMC2 EXCLUDED
 THREE FOOD GROUPS ADDED: FEVCOST, DAIRYCST, AND OTHCOST
 FULL SAMPLE

MODEL:	FILE	SSE	F RATIO	12.89
		DFE	PROB>F	0.0001
DEP VAR: FOODCOST		NSE	R-SQUARE	0.1539
FOOD EXPENDITURES, DIARY				
VARIABLE	DF	PARAMETER ESTIMATE	T RATIO	PROB>T
INTERCEPT	1	61.995919	7.5769	0.0001
W_FCI	1	0.120731	3.1193	0.0018
TILINC	1	0.00227399	0.2057	0.8370
AAO_5	1	1.055669	0.4288	0.6681
PERSONS	1	0.150479	6.7401	0.0001
MLHEAL2	1	-7.137027	-3.0717	0.0022
EP1	1	-5.821962	-1.3313	0.1833
EC2	1	-9.740282	-1.2879	0.1980
EC3	1	-5.775767	-0.7576	0.4458
EP1	1	11.423784	1.6524	0.0987
ED2	1	10.675418	2.2489	0.0247
ED3	1	1.136775	0.3538	0.7236
ED4	1	1.534118	0.4815	0.6302
STATUS	1	-3.146825	-1.0407	0.2982
ST_A_5	1	1.393080	0.6532	0.5137
ST_PLPS	1	0.115519	0.0841	0.9330
FREELV2	1	0.283752	1.3311	0.1834
STAMP2	1	-0.126582	-2.0759	0.0381
NGUD	1	4.832802	2.7530	0.0060
OTHNOM2	1	4.335938	1.4728	0.1410
INF21_3	1	15.654854	1.0811	0.2798
INF24_12	1	1.272901	0.1859	0.8525
CHLD21_5	1	6.403453	2.2126	0.0271

VARIABLE LABEL

TOTAL INCOME

NO. PERSONS EXCL. 0-5 AND MOTHER

WHITE

BLACK

HISPANIC

1-6 YEARS EDUC

7-8 YEARS EDUC

9-11 YEARS EDUC

12 YEARS EDUC

WIC/NON WIC

WIC NON/WIC BY PERSONS 0-5

WIC NON/WIC BY OTHER PERSONS

NET GUESTS, DIARY

WIC / NON WIC
ONE STAGE REGRESSION ANALYSIS
WITH SHS4 EXCLUDED
THREE FOC GROUPS ADDED: REVCOST, DAIRYCST, AND OTHCOST
FULL SAMPLE

MODEL:	TWE	SSR	SSR	F RATIO	6.35
DEP VAR: DAIRYCST		1559	11657.16	PROB>F	0.0001
		7.477347		R-SQUARE	0.0022
VARIABLE:	FF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB>T:
INTERCEPT	1	1.522101	0.575495	2.6260	0.0087
W_FEL1	1	3.004625	0.002738	1.6865	0.0314
TYLINC	1	-0.000674	0.000782	-0.8618	0.3889
ASO_F	1	0.005771	0.174206	0.5670	0.5700
PERSONS	1	0.176451	0.085474	2.0644	0.0291
WLEAD2	1	-0.124337	0.164445	-0.7561	0.4497
EG1	1	-0.303764	0.522046	-0.5819	0.5607
EG2	1	-0.274187	0.535211	-0.6991	0.4846
EG3	1	-0.354125	0.535076	-0.6559	0.5120
EG4	1	0.433090	0.485254	0.8975	0.3636
EG5	1	0.549176	0.335953	1.6347	0.1023
EG6	1	0.045075	0.227404	0.2017	0.8402
EG7	1	0.152662	0.225461	0.6766	0.4966
STATUS	1	-0.029854	0.213978	-0.1355	0.8891
ST_AGE5	1	-0.063517	0.215931	-0.2942	0.7687
ST_PERS	1	0.037467	0.097181	0.3955	0.6959
FEELN2	1	0.003168	0.015086	0.2101	0.8336
STAMP2	1	-0.011257	0.004315	-2.6087	0.0092
WUD	1	0.116385	0.124229	0.9578	0.3383
OTHWON2	1	-0.061361	0.204338	-0.2945	0.7684
INF21_5	1	2.114340	1.090187	1.9394	0.0526
INF24_12	1	4.770291	0.484555	9.8447	0.0001
CHLD21_5	1	0.251530	0.204620	1.2295	0.2191

VARIABLE LABEL

TOTAL INCOME

NO. PERSONS EXCL. 0-5 AND MOTHER

WHITE

BLACK

HISPANIC

1-6 YEARS EDUC

7-8 YEARS EDUC

9-11 YEARS EDUC

12 YEARS EDUC

WIC/NON WIC

WIC NON/WIC BY PERSONS 0-5

WIC NON/WIC BY OTHER PERSONS

NET GUESTS, DIARY

WIC / NOV WIC
 ONE STAGE REGRESSION ANALYSIS
 WITH SMSA EXCLUDED
 THREE FOOD GROUPS ADDED: BEVCOST, DAIRYCST, AND OTHERCST
 FULL SAMPLE

MODEL:	THI	SE	27531.46	F RATIO	7.95
DEP VAR: BEVCOST		OFF	1559	PROBDF	0.0001
		SE	17.655694	R-SQUARE	0.1009
VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	1.756351	0.890569	1.9722	0.0488
W_FEL	1	0.006101113	0.004205264	1.4494	0.1474
WILING	1	0.000453143	0.001202056	0.3775	0.7063
ADLS	1	0.192427	0.267720	0.7166	0.4724
PERSONS	1	0.624994	0.131357	4.7580	0.0001
MLHEAD?	1	0.102219	0.252720	0.4045	0.6959
EG1	1	0.624407	0.802281	0.7763	0.4365
EC2	1	-0.070050	0.822513	-0.0815	0.9271
EC3	1	0.316721	0.829662	0.3917	0.7027
EC4	1	2.300254	0.751866	3.0594	0.0023
EC5	1	1.661671	0.516269	3.2166	0.0013
EC6	1	0.985034	0.349475	2.8166	0.0049
EC7	1	0.475354	0.346486	1.3835	0.1667
STATUS	1	-0.196315	0.321842	-0.5666	0.5711
ST_ADLS	1	-0.177499	0.331643	-0.5345	0.5928
ST_FIFS	1	-0.098363	0.149348	-0.6586	0.5102
FREEEL2	1	0.047099	0.023184	2.0573	0.0398
STAFF2	1	0.013315	0.006631421	2.0078	0.0448
WICD	1	0.376374	0.190916	1.9714	0.0489
OTHERWIC2	1	0.487439	0.320173	1.5224	0.1261
W_F21_3	1	2.095733	1.675401	1.2509	0.2112
W_F24_12	1	0.633168	0.744665	0.8583	0.3908
CHL001_5	1	0.217305	0.314768	0.6904	0.4901

VARIABLE LABEL

TOTAL INCOME

NO. PERSONS EXCL. 0-5 AND MOTHER

WHITE

BLACK

HISPANIC

1-6 YEARS EDUC

7-8 YEARS EDUC

9-11 YEARS EDUC

12 YEARS EDUC

WIC/NON WIC

WIC NON/WIC BY PERSONS 0-5

WIC NON/WIC BY OTHER PERSONS

NET GUESTS, DIARY

WIC / NON WIC
ONE STAGE REGRESSION ANALYSIS
WITH SHS EXCLUDED
THREE FOOD GROUPS ADDED: LEUCOST, DAIRYCST, AND OTHCOST
FULL SAMPLE

MODEL:	FIF	USE DFF	417.562933	F RATIO	1.32
DEP VAR: OTHCOST		RSE	1559	PROB>F	0.1470
			0.267853	R-SQUARE	0.0163
VARIABLE	LF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB> T
INTERCEPT	1	9.150127	0.109679	1.3686	0.1713
W_FEL	1	0.0006190025	0.0005182995	1.5616	0.1140
YTLINC	1	0.0002375205	0.0001460458	1.6044	0.1068
ADU_5	1	-0.0056171	0.032971	-1.7036	0.0886
PERSONS	1	0.005836264	0.016177	0.3608	0.7183
MLHEPDE	1	0.015885	0.031124	0.5105	0.6098
EG1	1	-0.0043955	0.096606	-0.8497	0.3956
EG2	1	-0.132183	0.101295	-1.3045	0.1921
EG3	1	-0.084318	0.102161	-0.8252	0.4034
ED1	1	0.192170	0.092663	2.0753	0.0381
ED2	1	-0.032299	0.063584	-0.5080	0.6115
ED3	1	-0.040355	0.043040	-0.9376	0.3486
ED4	1	-0.037622	0.042672	-0.8817	0.3731
STATUS	1	-0.023546	0.040495	-0.5913	0.5544
ST_AC_5	1	0.042481	0.040869	1.0639	0.2975
ST_FERS	1	0.001316075	0.018393	0.0716	0.9430
FFELN2	1	-0.00421889	0.002855212	-1.4776	0.1397
STAMP2	1	0.000594292	0.0008167015	1.0523	0.2928
WGUD	1	0.015031	0.023512	0.6393	0.5227
OTHWCM2	1	-0.00813987	0.039431	-0.2064	0.8365
INF21_1	1	-0.0359221	0.206336	-0.2434	0.8077
INF24_12	1	0.038252	0.091710	0.4171	0.6767
CHLD21_5	1	0.008002131	0.038766	0.2064	0.6365

VARIABLE
LABEL

TOTAL INCOME

NO. PERSONS EXCL. 0-5 AND MOTHER

WHITE

BLACK

HISPANIC

1-6 YEARS EDUC

7-8 YEARS EDUC

9-11 YEARS EDUC

12 YEARS EDUC

WIC/NON WIC

WIC NON/WIC BY PERSONS 0-5

WIC NON/WIC BY OTHER PERSONS

NET GUESTS, DIARY

WIC / NCA WIC
STATISTICS FOR VARIABLES USED IN REGRESSION ANALYSIS
BY STATUS -- 1=WIC

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
WIC/MCN WIC=1								
W_FEL1	TOTAL INCOME	1031	47.45902030	28.75276538	0.00000000	227.6273249	0.89546837	48530.2495
W_FEL2		1031	140.75323424	101.54088978	0.00000000	524.0000000	3.16236236	145116.5945
W_FEL3		1031	0.61105723	0.78141610	0.00000000	5.00000000	0.02433624	630.0000
W_FEL4	AD. PERSONS EXCL. 0-5 AND MOTHER	1031	0.95150359	1.62133086	-1.00000000	9.00000000	0.05049420	981.0000
W_FEL5		1031	0.61881628	0.46591317	0.00000000	1.00000000	0.01513315	638.0000
W_FEL6	WHITE	1031	0.50727449	0.50016971	0.00000000	1.00000000	0.01557777	523.0000
W_FEL7	BLACK	1031	0.29000970	0.45398676	0.00000000	1.00000000	0.01413114	299.0000
W_FEL8	HISPANIC	1031	0.18525703	0.38869445	0.00000000	1.00000000	0.01210540	191.0000
W_FEL9	1-6 YEARS EDUC	1031	0.03297769	0.17666484	0.00000000	1.00000000	0.00556429	34.0000
W_FEL10	7-9 YEARS EDUC	1031	0.08341416	0.27664141	0.00000000	1.00000000	0.00861565	86.0000
W_FEL11	10-11 YEARS EDUC	1031	0.43452558	0.49593566	0.00000000	1.00000000	0.01544529	448.0000
W_FEL12	12 YEARS EDUC	1031	0.33265664	0.47174754	0.00000000	1.00000000	0.01469198	344.0000
W_FEL13	WIC/MCN WIC	1031	1.00000000	0.00000000	1.00000000	1.00000000	0.00000000	1031.0000
W_FEL14		1031	1.77012609	5.62981433	0.00000000	75.0000000	0.17751350	1825.0000
W_FEL15		1031	16.30017665	20.71118754	0.00000000	109.6000000	0.64502369	16805.4821
W_FEL16	NET GUESTS, DIARY	1031	-0.09271532	0.53861847	-4.97478183	4.00000000	0.01677459	-101.7755
W_FEL17		1031	0.19689622	0.40263730	0.00000000	2.00000000	0.01254150	203.0000
W_FEL18		1031	0.00676952	0.08215823	0.00000000	1.00000000	0.00255871	7.0000
W_FEL19		1031	0.03297769	0.17866484	0.00000000	1.00000000	0.00556429	34.0000
W_FEL20		1031	0.23181377	0.49423522	0.00000000	3.00000000	0.01535233	239.0000
W_FEL21		1031	0.39961203	0.71689720	0.00000000	6.00000000	0.02232686	412.0000
W_FEL22		1031	0.63045587	0.79574334	0.00000000	4.00000000	0.02478242	650.0000
W_FEL23		1031	0.41416101	0.74139284	0.00000000	6.00000000	0.02308974	427.0000
W_FEL24		1031	0.42967952	0.69579304	0.00000000	5.00000000	0.02166959	443.0000
W_FEL25		1031	0.54316198	0.56416386	0.00000000	3.00000000	0.01757017	560.0000
W_FEL26		1031	0.30261882	0.65920144	0.00000000	5.00000000	0.02052999	312.0000
W_FEL27		1031	0.37148400	0.55975170	0.00000000	3.00000000	0.01743275	383.0000
W_FEL28		1031	0.60814743	0.48840056	0.00000000	1.00000000	0.01521063	627.0000
W_FEL29		1031	3.05227633	6.92411316	0.00000000	70.0000000	0.21751136	3147.0000
W_FEL30		1031	-0.00650750	0.07367634	-0.70000000	0.7622222	0.00229456	-0.7000
W_FEL31		1031	15.28535413	20.66393435	0.00000000	140.0000000	0.64978080	15750.2001
W_FEL32		1031	0.02133851	0.14458025	0.00000000	1.00000000	0.00450277	22.0000
W_FEL33		1031	0.00484966	0.06950415	0.00000000	1.00000000	0.00216462	5.0000
W_FEL34		1031	0.05916586	0.24012716	0.00000000	2.00000000	0.00747846	61.0000
W_FEL35		1031	0.14161002	0.41021534	0.00000000	3.00000000	0.01277564	146.0000
W_FEL36		1031	12.76038260	12.32909155	0.00000000	139.2095789	0.38397394	13155.9545
W_FEL37		1031	15.27693415	16.40769418	0.00000000	150.4100000	0.51099485	15750.5102
W_FEL38		1031	6.05915637	6.75612791	0.00000000	49.0400000	0.21041104	6288.2301
W_FEL39		1031	6.86359121	5.85625978	0.00000000	40.5711025	0.18238704	7076.3625
W_FEL40		1031	20.35635846	19.16371406	0.00000000	154.6500000	0.59682959	20991.2156
W_FEL41		1031	4.14350674	7.56641144	0.00000000	57.2000000	0.23564559	4272.3098
W_FEL42		1031	7.65584321	7.71579540	0.00000000	75.7520000	0.24029667	7893.1744
W_FEL43		1031	54.44161860	39.04988320	0.00000000	307.4017860	1.21612759	56129.3086
W_FEL44		1031	9.61890866	12.44913238	0.00000000	112.6800000	0.38771245	9917.1713
W_FEL45		1031	64.06060726	42.83963702	1.21000000	314.6617860	1.33418622	66046.4881
W_FEL46		1031	1.55631708	3.22032717	0.00000000	43.0000000	0.10029301	1645.8029
W_FEL47		1031	4.05674342	4.36275046	0.00000000	36.5100000	0.13587262	4225.8045
W_FEL48		1031	0.00064985	0.48123492	-0.00000000	7.40000000	0.01498745	93.4660
FOOD EXPENDITURES, DIARY								
W_FEL49		1031						
W_FEL50		1031						
W_FEL51		1031						
W_FEL52		1031						
W_FEL53		1031						
W_FEL54		1031						
W_FEL55		1031						
W_FEL56		1031						
W_FEL57		1031						
W_FEL58		1031						
W_FEL59		1031						
W_FEL60		1031						
W_FEL61		1031						
W_FEL62		1031						
W_FEL63		1031						
W_FEL64		1031						
W_FEL65		1031						
W_FEL66		1031						
W_FEL67		1031						
W_FEL68		1031						
W_FEL69		1031						
W_FEL70		1031						
W_FEL71		1031						
W_FEL72		1031						
W_FEL73		1031						
W_FEL74		1031						
W_FEL75		1031						
W_FEL76		1031						
W_FEL77		1031						
W_FEL78		1031						
W_FEL79		1031						
W_FEL80		1031						
W_FEL81		1031						
W_FEL82		1031						
W_FEL83		1031						
W_FEL84		1031						
W_FEL85		1031						
W_FEL86		1031						
W_FEL87		1031						
W_FEL88		1031						
W_FEL89		1031						
W_FEL90		1031						
W_FEL91		1031						
W_FEL92		1031						
W_FEL93		1031						
W_FEL94		1031						
W_FEL95		1031						
W_FEL96		1031						
W_FEL97		1031						
W_FEL98		1031						
W_FEL99		1031						
W_FEL100		1031						

WIC / NON WIC
STATISTICS FOR VARIABLES USED IN REGRESSION ANALYSIS
BY STATUS -- 1=JIC

14:00 TUESDAY, SEPTEMBER 4, 1984 1

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
WIC/NON WIC=0								
W_FEL	TOTAL INCOME	551	49.51823838	29.03798316	0.00000000	139.7293333	1.23578163	27284.54925
TITLEC		551	175.66532135	192.87966572	0.00000000	798.0399000	4.38262563	96460.55235
AGE_5		551	0.54083485	0.69351015	0.00000000	4.0000000	0.02956157	298.00000
PERSONS	NO. PERSONS EXCL. 0-5 AND MOTHER	551	0.87114338	1.46215978	-1.00000000	8.0000000	0.06225118	489.00000
MLHEAD2		551	0.73502722	0.44171973	0.00000000	1.0000000	0.01861785	405.00000
E01	WHITE	551	0.56987296	0.49554358	0.00000000	1.0000000	0.02111087	314.00000
E02	BLACK	551	0.17604356	0.38120330	0.00000000	1.0000000	0.01623581	97.00000
F03	HISPANIC	551	0.23411978	0.42383217	0.00000000	1.0000000	0.01805582	129.00000
E01	1-6 YEARS EDUC	551	0.01633394	0.12687141	0.00000000	1.0000000	0.00540490	9.00000
E02	7-9 YEARS EDUC	551	0.05081670	0.21922279	0.00000000	1.0000000	0.00936477	28.00000
E03	10-11 YEARS EDUC	551	0.34664247	0.47633313	0.00000000	1.0000000	0.02029247	191.00000
E04	12 YEARS EDUC	551	0.43012704	0.49554358	0.00000000	1.0000000	0.02111087	237.00000
STATUS	WIC/NON WIC	551	0.00000000	0.00000000	0.00000000	0.0000000	0.00000000	0.00000
FREELN1		551	1.00181486	3.95221415	0.00000000	40.0000000	0.16836598	552.00000
STAMP2		551	7.94554121	15.29367536	0.00000000	93.9488676	0.65153248	4377.95321
NET GUESTS, DIARY		551	-0.10922363	0.61374116	-4.00000000	7.0000000	0.02614625	-60.18222
OTHERG02		551	0.01956370	0.15243717	0.00000000	2.0000000	0.00649404	11.00000
INF21_3		551	0.00000000	0.00000000	0.00000000	0.0000000	0.00000000	0.00000
INF24_12		551	0.00362976	0.06015273	0.00000000	1.0000000	0.00256430	2.00000
CHLD01_5		551	0.01451906	0.14699316	0.00000000	2.0000000	0.00626212	8.00000
A45_11		551	0.36127042	0.63816372	0.00000000	4.0000000	0.02716669	166.00000
A45_5		551	0.53176044	0.65699591	0.00000000	4.0000000	0.02969316	293.00000
A5_10		551	0.31760436	0.65977853	0.00000000	4.0000000	0.02818751	175.00000
M11_22		551	0.45009074	0.71398688	0.00000000	7.0000000	0.03041666	249.00000
M23_59		551	0.65517241	0.62155634	0.00000000	5.0000000	0.02647919	361.00000
F11_22		551	0.22141561	0.57680514	0.00000000	3.0000000	0.02457273	122.00000
F23_34		551	0.32123412	0.55945032	0.00000000	5.0000000	0.02383336	177.00000
MLHEAD1	MALE HEAD PRESENT, TIME 1	551	0.72050617	0.44915731	0.00000000	1.0000000	0.01913474	397.00000
FREELN1		551	2.05263158	6.02501961	0.00000000	40.0000000	0.25667446	1131.00000
NG01	NET GUESTS, TIME 1	551	-0.00419265	0.09875974	-0.63777778	1.2911111	0.03420731	-2.31015
STAMP1		551	7.74310661	15.42554902	0.00000000	100.0926439	0.65715310	4266.45185
OTHERG01		551	0.00544465	0.07365356	0.00000000	1.0000000	0.00313775	3.00000
INF11_3		551	0.00161488	0.04266143	0.00000000	1.0000000	0.00181488	1.00000
INF14_12		551	0.00382976	0.06019272	0.00000000	1.0000000	0.00256430	2.00000
CHLD11_5		551	0.01633394	0.15286948	0.00000000	2.0000000	0.00651246	9.00000
WIC001		551	0.13629856	0.341881260	0.00000000	66.2300000	0.026067018	4483.10050
MEATCOST		551	15.11776061	17.65410444	0.00000000	231.2351710	0.75209013	8329.68600
CONDCCOST		551	6.09560854	6.16106627	0.00000000	43.8422523	0.26247025	3309.20051
CERLCCOST		551	7.14314584	5.58859452	0.00000000	46.5500000	0.23808212	3935.87330
FRESHCOST		551	21.15709111	18.58611631	0.00000000	194.9480338	0.79179518	11657.55720
FROZCCOST		551	3.58806384	5.82422207	0.00000000	67.1554670	0.24812020	1977.02319
VEGICOST		551	7.11068337	6.90895879	0.00000000	64.8300000	0.20433154	3917.98654
GRCCOST		551	49.15345611	35.63390164	1.29000000	328.1755877	1.52683114	27883.57636
COSTCUT		551	13.69659268	14.17501046	0.00000000	77.4400000	0.60387575	7546.62268
FOODEXP04	FOOD EXPENDITURES, DIARY	551	62.85008899	39.54937506	2.51000000	328.1755877	1.68481742	34630.35903
DAIRYCOST		551	1.46411242	1.91315378	0.00000000	13.5000000	0.09150309	806.72599
BEVCOST		551	4.67546898	4.47559299	0.00000000	42.2200000	0.19066693	2245.58341
OTHCOST		551	0.10021779	0.58276110	-0.00000000	10.4100000	0.02482646	55.22000

VII-C. ANALYTICAL FRAMEWORK

I. Mathematical Model

WIC families were assumed to allocate their income among the different goods based on the maximization of the utility functions:

$$U = U(F_w, NT_2, F_{nw}, NF_{nw}, X), \quad (1)$$

where

F and NF represent WIC foods and all other goods, respectively,

w and nw represent the WIC recipient and nonrecipient, respectively,

X is a vector of socioeconomic variables influencing tastes, not reflected in the budget constraint.

This function is maximized subject to a budget constraint:

$$Y - P_f F_w - P_{nf} NF_w - P_f F_{nw} - P_{nf} NF_{nw} = 0, \quad (2)$$

where

Y = total household income,

P_f = price of food units in WIC package,

F_w = "food" consumed by WIC recipients, where "food" is a generic term for all items in the WIC package,

P_{nf} = price of all other goods,

NF_w = all other goods consumed by the WIC recipient,

F_{nw} = WIC foods consumed by non-WIC members of the household,

NF_{nw} = all other goods consumed by non-WIC members of the household.

Maximization of the above system implies the following demand function for WIC goods consumed by WIC recipients:

$$F_w = g(Y, P_f, P_{nf}, X). \quad (3)$$

where k is a non-zero constant. Note that it is not only the estimate of the parameter of the FE_1 variable in X_2 that will be inconsistent, but in all likelihood, all parameters will be affected. However, if

$$\hat{\beta} = (\hat{X}_2' \hat{X}_2)^{-1} \hat{X}_2' FE_2$$

is used, where \hat{X}_2 differs from X_2 only in that it contains \hat{FE}_1 rather than FE_1 , then $\hat{\beta}$ will be a consistent estimator. Note that

$$\text{plim}(\hat{\beta}) = \beta + \text{plim} \left(\frac{1}{n} \hat{X}_2' \hat{X}_2 \right)^{-1} \text{plim} \left(\frac{1}{n} \hat{X}_2' e \right).$$

If the standard assumption can be made that

$$\text{plim} \left(\frac{1}{n} \hat{X}_2' \hat{X}_2 \right)^{-1} = \Sigma,$$

where Σ is a matrix of constants and noting that if $\hat{\alpha}$ is a consistent estimator for α , then

$$\text{plim} \left(\frac{1}{n} \hat{X}_2' e \right) = \begin{bmatrix} \text{plim} \frac{1}{n} X_2' e \\ \text{plim} \frac{1}{n} \hat{FE}_1' e \end{bmatrix} = \text{plim} \begin{bmatrix} 0 \\ \frac{1}{n} \hat{\alpha}' X_1' e \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

and the last term in the expression for $\text{plim}(\hat{\beta})$ above will vanish, so $\text{plim}(\hat{\beta}) = \beta$, and therefore is a consistent estimator for β .